SACHS HARBOUR COMMUNITY CONSERVATION PLAN

A plan for the conservation and management of renewable resources and lands within the Inuvialuit Settlement Region and in the vicinity of Banksland, Northwest Territories



Prepared by

The Community of Sachs Harbour,
Wildlife Management Advisory Council (NWT)
And
Joint Secretariat

July 2008

IMPORTANT DEFINITIONS AND ABBREVIATIONS

The following important words and abbreviations have been used in the Community Conservation Plan and are explained below.

Community

Refers to all the Inuvialuit individuals living in the area and the local organizations which represent them. Those organizations include the Hunters and Trappers Committee, Elders, Community Corporation, Community Education Council and Hamlet.

Conservation

Is ensuring that if we take caribou, there will be caribou the next year and the year after that. The same for anything else. This applies to all uses of the land: if it is used and enjoyed now, it must be left and preserved so that it will be there for the next year and for future years.

Ecosystem

Refers to all of the plants and animals in an area, including the air, water and land on which they depend. The parts of the ecosystem are interconnected and influence one another. Food and energy flow through the ecosystem and are returned to it. Successful conservation and management depend on the recognition that changing one part of the ecosystem may affect the other parts.

CWS - Canadian Wildlife Service

DFO - Department of Fisheries and Oceans

DIAND - Department of Indian Affairs and Northern Development

DOT - Department of Transportation

DENR - Department of Environment and Natural Resources (ENR)

EIRB - Environmental Impact Review Board

EISC - Environmental Impact Screening Committee

FJMC - Fisheries Joint Management Committee

GNWT - Government of the Northwest Territories

GRRB - Gwich'in Renewable Resource Board

GTC - Gwich'in Tribal Council

HTC - Hunters and Trappers Committee

IBP - International Biological Programme

IFA - Inuvialuit Final Agreement

IGC - Inuvialuit Game Council

ILA - Inuvialuit Land Administration

ILAC - Inuvialuit Land Administration Commission

IRC - Inuvialuit Regional Corporation

ISR - Inuvialuit Settlement Region

NWMB - Nunavut Wildlife Management Board

NWT - Northwest Territories

PWNHC - Prince of Wales Northern Heritage Centre

RRC - Renewable Resource Committee (Gwich'in)

SHCC - Sachs Harbour Community Corporation

SHHTC - Sachs Harbour Hunters and Trappers Committee

SRRB - Sahtu Renewable Resource Board

WMAC(NS) - Wildlife Management Advisory Council (North Slope)

WMAC(NWT) - Wildlife Management Advisory Council (Northwest Territories)

YTG - Yukon Territorial Government

2000

The Sachs Harbour Community Conservation Plan has been prepared in consultation with the Community of Sachs Harbour and Inuvialuit and non-Inuvialuit bodies with an interest in the area. The undersigned hereby adopt this document for the purpose of guiding policy and planning in the area.

John Keogak, Sr. Sachs Harbour Working Group Donna Keogak Sachs Harbour Working Group

John Luces, Jr. Sachs Harbour Working Group Paul Raddi Sachs Harbour Working Group

Geddes Wolki, Sr. Sachs Harbour Working Group

Frank Pokiak, Vice-Chair Wildlife Management Advisory Council (NWT) Duane Smith, Chair Inuvialuit Game Council

Robert Bell, Chair Fisheries Joint Management Committee **Conservation** is ensuring that if we take muskox, there will be muskox the next year and the year after that. The same for anything else. This applies to all uses of the land: if it is used and enjoyed now, it must be left and preserved so that it will be there for the next year and for future years.

-Adapted by Sheila Nasogaluak from a similar quote by Peter Green, Paulatuk, NWT

The Community recognizes that the success of conservation depends on the efforts of each person living in Sachs Harbour, as well as the cooperative support of the other individuals and organizations with an interest in Banksland and adjacent waters.

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EXECUTIVE SUMMARY

The Sachs Harbour Community Conservation Plan is a community-based planning document that was originally prepared in 1992 by the Sachs Harbour Hunters and Trappers Committee, Sachs Harbour Community Corporation, and Sachs Harbour Elders Committee. Creation of community-based conservation plans was the first objective of the Inuvialuit Renewable Resource Conservation and Management Plan (1988), a document jointly prepared by the Wildlife Management Advisory Council (NWT) and the Fisheries Joint Management Committee in partial fulfilment of their obligations under the Inuvialuit Final Agreement. Numerous Inuvialuit and non-Inuvialuit organizations were consulted during the planning process. A wide range of existing conservation plans were considered by the joint working group and extensive use was made of the Land Use Plan for the Mackenzie Delta Beaufort Sea Region.

This updated 2000 Sachs Harbour Community Conservation Plan built upon the work of the original document. A Working Group was re-established as part of the review exercise, and extensive consultation was once again undertaken with Inuvialuit and non-Inuvialuit organizations.

The document is intended to provide guidance to all those with an interest in the planning area, but is not a legally binding document.

The Plan contains a brief description of the current conservation and resource management system in the Inuvialuit Settlement Region and describes the strategy to address five broad goals:

- 1. To identify important wildlife habitat, seasonal harvesting areas and cultural sites and make recommendations for their management.
- 2. To describe a community process for land use decisions and managing cumulative impacts which will help protect community values and the resources on which priority lifestyles depend.
- 3. To identify educational initiatives for the Inuvialuit of Sachs Harbour and others interested in the area which will promote conservation, understanding and appreciation.
- 4. To describe a general system of wildlife management and identify population goals and conservation measures appropriate for each species of concern in the planning area using the knowledge of community and others with expertise.
- 5. To enhance the local economy by adopting a cooperative and consistent approach to community decision making and renewable resource management.

All excerpts of other documents included in this plan are not a substitute for the originals; original source documents should be used for legal accuracy or citation purposes.

The Sachs Harbour Community Conservation Plan will be subject to a progress review and potential amendment every two years. The HTC is responsible for initiating the review, to be conducted by the Community Conservation Plan Working Group. All feedback should be provided to the Joint Secretariat for integration in updated versions of the Plan. Minor revisions or corrections to the Plan may be sent to the Joint Secretariat at any time, for entry into subsequent versions. A complete review of the Plan by all stakeholders will occur a minimum of every four years.

Copies of the Plan are available from the Wildlife Management Advisory Council (NWT), P.O. Box 2120, Inuvik, NWT, X0E 0T0. Phone (867) 777-2828.

ACKNOWLEDGEMENTS

1992

The Sachs Harbour Community Conservation Plan (for Banksland) resulted from the efforts of many people. The Sachs Harbour Community Conservation Plan Working Group was established to represent the community in the development of a local conservation plan. Working Group members were Charlie Haogak (HTC), Larry Carpenter (HTC), Geddes Wolki (Elders), Sheila Nasogaluak and Andy Carpenter (Community Corporation), Donna Keogak (Community Education Council), Paul Raddi and Jackie Joe (Hamlet). Development of the plan was facilitated by Randal Glaholt. Comments and guidance were also provided by the many other residents of Sachs Harbour, the Wildlife Management Advisory Council (NWT), Fisheries Joint Management Committee, Environmental Impact Screening Committee, Environmental Impact Review Board, Inuvialuit Land Administration, GNWT Department of Renewable Resources, Inuvialuit Land Administration, GNWT Department of Economic Development and Tourism, Canadian Wildlife Service, Indian and Northern Affairs Canada, Canada Parks Service, Tom Beck (former Mackenzie Delta-Beaufort Sea Regional Land Use Planning Commissioner) and others.

2000

Revisions to the 2000 Sachs Harbour Community Conservation Plan could not have been achieved without the dedicated efforts of: Geddes Wolki, Sr., John Keogak, Sr., John Lucas, Jr., Paul Raddi, Donna Keogak, and the staff of the Joint Secretariat. Brian Johnston (Resource Person, WMAC(NWT)) and Michael Muller (GIS Specialist, Joint Secretariat) conducted community consultations and drafted the updated document, based on the recommendations of the community. The current plan is produced and distributed by the Joint Secretariat.

2008

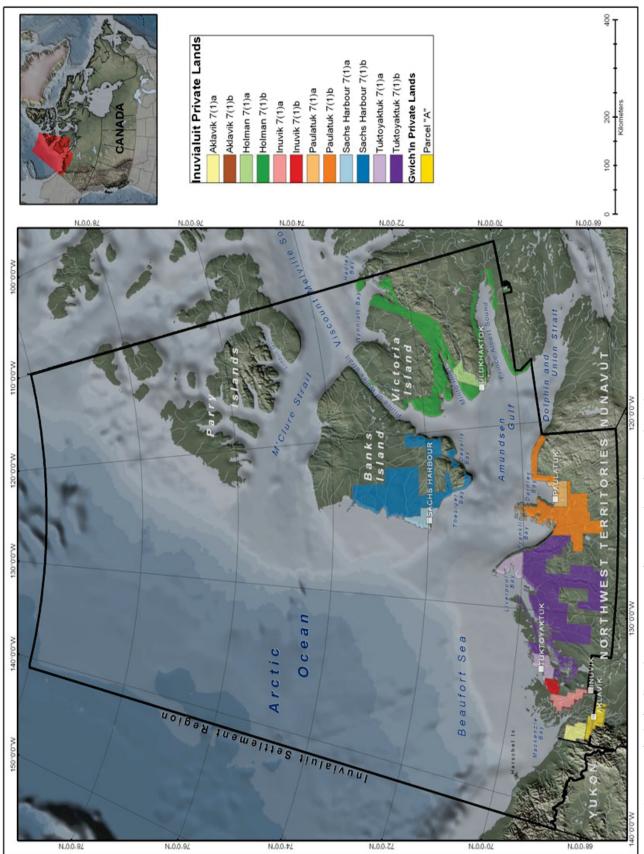
The 2008 Sachs Harbour Community Conservation Plan would have not been such a success if it were not for the following: The Sachs Harbour Working Group, the Wildlife Management Advisory Council, Fisheries Joint Management Committee and the Joint Secretariat. Also a very big Thank You to the Environment and Natural Resources Department for making the old maps available to the Working Group and drafting the amended maps.

1 INTRODUCTION

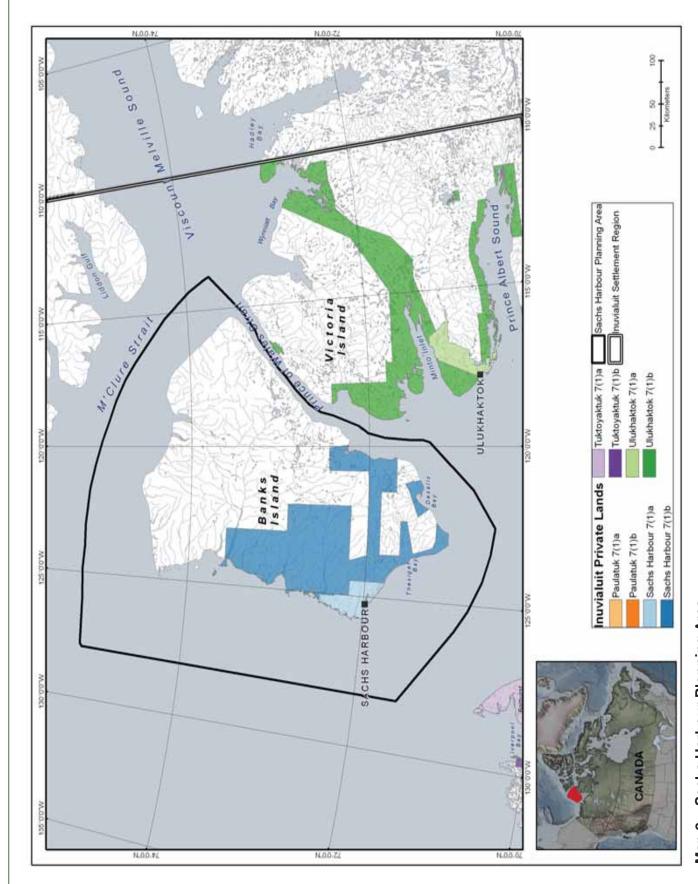
Banks Island, also known as Banksland, is one of Canada's most diverse Arctic environments. Home to many species of wildlife - including the largest muskox herd in the world, the largest nesting population of snow geese in the western Arctic and an abundance of marine life - the area is of international importance. The Inuvialuit of Sachs Harbour have relied upon the region's wildlife for many years. This plan was developed to protect the environment of Banksland and to ensure cultural survival of the Community, in accordance with the *Western Arctic (Inuvialuit) Claims Settlement Act* and the Inuvialuit Renewable Resource Conservation and Management Plan.

Development of the original plan has been coordinated by representatives of the Sachs Harbour Hunters and Trappers Committee, the Community Corporation, the Community Education Council, the Elders and Hamlet. To initially prepare this plan, the Sachs Harbour Community Conservation Plan Working Group carefully reviewed conservation plans already completed in other Inuvialuit communities, species management plans, the WMAC (NWT)/FJMC regional plan and the Regional Land Use Plan for the Mackenzie Delta-Beaufort Sea Region. In addition, considerable effort was made to obtain opinion and advice from members of the Community. The plan is intended to express the community's specific goals and objectives with respect to conservation of lands, waters and living resources in the vicinity of Banksland (Figure 1). The plan describes a process for avoiding land use conflicts and dealing with cumulative impacts. We hope the plan will assist the Inuvialuit and others in ensuring conservation and environmental protection of Banksland. The Plan will be reviewed every two years by the Sachs Harbour Community Conservation Working Group and amended at that time if necessary.

The updating exercise of 1998/99 that has produced the present version of the Plan was spearheaded by the SHHTC, a newly re-established Community Working Group, and the staff of the Joint Secretariat. Once again, consultation with Inuvialuit and non-Inuvialuit organizations and co-management bodies played an important role in the review process. A multi-stakeholder workshop was held in February 1999 to exchange advice and recommendations before the final version of the Community Conservation Plans were drafted.



Map 1: Inuvialuit Settlement Region and Private lands.



Map 2. Sachs Harbour Planning Area

1.1 A BRIEF HISTORY OF BANKSLAND

Banksland is the most westerly island of the Canadian Arctic Archipelago. The island is approximately 400 km between its furthest northern and southern points and averages about 200 km east to west. The Community of Sachs Harbour is located near the base of a plateau on silty soil and hummocky ground on the south west coast of the island at approximately 71° 59' north latitude and 124°1 44' west longitude. Archaeological remains found on Banksland indicate occupation by Thule people until about 500 years ago. Other sites in the Arctic indicate human occupation extending 3,000 to 5,000 years ago. Banksland appears to have remained unoccupied for several hundred years until the early 1800s when Sir Joseph Banks, President of the Royal Society in Britain encouraged the British Navy to resume exploration of the Northwest Passage. In 1820 Banksland was rediscovered by explorers Frederick Beechey and William Parry who were travelling along the shore of Melville Island. It was at this time the island was named "Banksland". Captain McClure made the first European landing on Banksland on September 7, 1850, in the ship "The Investigator", a vessel later abandoned at Mercy Bay at the north end of the island in 1853. In 1913 an explorer named Vilhjalmur Stefansson, began the first scientific exploration of Banksland aboard the ship "Mary Sachs". The Mary Sachs was run aground about seven miles west of the current town of Sachs Harbour.

The first trappers on Banksland were August Mahik and Adolf Binder in 1916, and a year later Fred Wolki. Adam Inualthuyak was another active trapper at this time. The first trappers to winter at Sachs Harbour were Bennet Ningaqsiq, Raddi Kowitchuk, Jim Wolki, Jim Cockney, and Fred Carpenter who started the first store. The RCMP post was built at Sachs Harbour in 1953. Peter Esau was made Special Constable in 1958. Although the current settlement is at Sachs Harbour, Inuvialuit families have also historically wintered at Siksik Bay, Siksik Point, Storkerson Bay, Sea Otter Harbour, Lennie Harbour, Blue Fox Harbour on the west coast, and De Salis Bay and Jesse Bay on the east coast.

1.2 INUVIALUIT FINAL AGREEMENT AND RENEWABLE RESOURCE MANAGEMENT

1.2.1 Inuvialuit Final Agreement

To secure and protect the homeland of the Inuvialuit in the Beaufort Sea region, known as the Inuvialuit Settlement Region (ISR), the Inuvialuit and the governments of Canada, the Northwest Territories, and the Yukon, negotiated The Inuvialuit Final Agreement (IFA). Proclaimed on July 24, 1984, the IFA includes the Northern Mackenzie Delta, Yukon North Slope and the western portion of the Arctic Islands. The IFA established several new management bodies to help ensure that the land and its living resources are conserved for the benefit of the Inuvialuit (see Appendices D and E). In addition to the summaries presented below, additional detailed information is available from the organizations described.

1.2.2 Wildlife Management Advisory Councils (NWT and North Slope) and Fisheries Joint Management Committee

The IFA created three new co-management bodies: the Wildlife Management Advisory Council (NWT), (WMAC (NWT), the Wildlife Management Advisory Council (North Slope), (WMAC (North Slope) and the Fisheries Joint Management Committee (FJMC). The WMAC (NWT) provides advice to appropriate government ministers and Inuvialuit agencies on all matters relating to wildlife policy and the management, regulation and administration of wildlife, habitat and harvesting in the Northwest Territories portion of the Inuvialuit Settlement Region. The WMAC (NWT) also advises government on wildlife related issues of park planning and management. The WMAC (North Slope) fills a similar role as the WMAC (NWT) however, its focus is on the Yukon North Slope. In addition to providing advice to government ministers, the WMAC (North Slope) is also expected to provide advice to the Porcupine Caribou Management Board, the EIRB and other groups. The FJMC assists Canada and the Inuvialuit in a similar fashion, managing the area's marine mammals and marine and freshwater fisheries. The FJMC also coordinates delivery of the HTC registration system for fishing by non-beneficiaries on private land.

1.2.3 Inuvialuit Game Council and Hunters and Trappers Committees

The IFA also created the Inuvialuit Game Council (IGC) and provided for the creation of a Hunters and Trappers Committee (HTC) in each of the six Inuvialuit communities. The IGC is intended to represent the collective or entire Inuvialuit interest in wildlife and to advise the government, often through the WMAC (NWT) and FJMC. The HTC is, among other things, responsible for local resource allocation and is expected to encourage and promote Inuvialuit involvement in conservation, research, management, enforcement and utilization.

1.2.4 Inuvialuit Land Administration

The Inuvialuit Land Administration (ILA) manages and administers access to Inuvialuit 7(1)(a) and 7(1)(b) lands (see maps 1 and 2). Development proposals are screened by the ILA although they may also be referred to the Environmental Impact Screening Committee by the Inuvialuit.

All applications submitted to the ILA are distributed to the local HTC's and Community Corporations for review and comment. Final approval of applications is made by the ILAC who generally will not grant permits without the support and approval of the HTC and Community Corporation. ILAC has the authority to attach a variety of conditions on development proposals on Inuvialuit 7(1)(a) and 7(1)(b) lands to ensure that land and resources are not harmed and that the Inuvialuit benefit. Further information is available in the ILA "Rules and Procedures".

1.2.5 Environmental Impact Screening Committee and Environmental Impact Review Board

Under the terms of the IFA, the Environmental Impact Screening Committee (EISC) screens all development proposals on Crown lands within the ISR to determine if there is potential for significant negative environmental impact (see Appendix H). Projects in the offshore are also screened by the EISC, in response to a request from the Inuvialuit Game Council. Projects which may have significant negative impact are referred to the Environmental Impact Review Board (EIRB) or other equivalent environmental review processes for a public assessment and review. The EIRB has the authority to conduct a detailed public review and make recommendations to the competent governmental authority, with respect to proposed developments.

The community believes that the existing methods for environmental screening and review can be incorporated as part of the general conservation process for the Planning Area (see also Section 4.4). The community supports development where it is compatible with the Conservation Plan's land use and species management priorities. A copy of the EISC and EIRB "Operating Guidelines and Procedures" has been provided to the HTC for public information.

2 COMMUNITY VALUES

The following principles express Inuvialuit community beliefs and values with respect to conservation and resource management in the planning area (see Map 2).

(a) Conservation is First Priority

All uses of the land in the Planning Area, including renewable and non-renewable resource development, must recognize conservation of the renewable resource base as the foremost priority. This applies to uses of the land by the community and by other interests.

(b) Integrated Management

All parts of the environment are interconnected, so they must be managed together. Conservation, stable economic development and sound resource management can only be achieved if all parties work toward a common goal. The Inuvialuit community of Sachs Harbour recognizes the relationship between direct economic security and resource conservation and the importance of maintaining a spirit of cooperation between all people living in the region.

(c) Maximize Community Benefit

Renewable and non-renewable resource development in the Sachs Harbour planning area should be of maximum benefit to community residents, with priorities for Inuvialuit as detailed in the IFA. Development projects should be scaled to retain opportunities and ensure the most lasting benefit to the local economy.

(d) Protect Priority Community Activities

Priority activities to be protected by the Sachs Harbour Community Conservation Plan are hunting, fishing, guiding, trapping, tourism and arts and crafts manufacturing.

(e) Cooperative Management of Shared Resources

The Sachs Harbour Community Conservation Plan recognizes a special need for cooperation in the management of migratory species which are also used by other Inuvialuit and non Inuvialuit.

(f) Maintain Healthy Environment

The Inuvialuit of Sachs Harbour place a high priority on maintaining air and water quality and the health of the resources.

(a) Consistency

The Sachs Harbour Community Conservation Plan should be consistent with the Principles of Wildlife Harvesting and Management from the IFA, (Appendix A), the goals and principles of the Inuvialuit Renewable Resource Conservation and Management Plan (1988), (Appendix B), the goals of the North Slope Wildlife Conservation and Management Plan (1993) (Appendix C), the Regional Land Use Plan (1991), the Arctic Environmental Strategy (1991), and other conservation plans or agreements endorsed by the Community's representatives (e.g. Management Agreement for polar bears in the Northern Beaufort Sea Population (1991), the Beaufort Sea Beluga Management Plan (1991). The plan has also been developed in consideration of the draft Inuit Regional Conservation Strategy (1986) prepared for the Inuit Circumpolar Conference Environmental Commission.

3 GOALS

The Inuvialuit Community has identified an overall strategy for conservation and resource management in the Sachs Harbour Planning Area. This strategy is based on five general goals:

1. Identify and Protect Important Habitats and Harvesting Areas

To identify important wildlife habitat, seasonal harvesting areas and cultural sites (for example, cabin sites) and make recommendations for their management.

2. Land Use Decisions

To describe the community process for making land use decisions and managing cumulative impacts which will help protect community values and conserve the resources on which priority lifestyles depend.

3. Education

To identify educational initiatives for the Inuvialuit of Sachs Harbour and others interested in the area which will promote conservation, understanding and appreciation.

4. Define Species Management

To describe a general system for wildlife management and conservation and identify population goals and conservation measures appropriate for each species of concern in the planning area. This will be done using the knowledge of the Community and others with expertise.

5. Enhance Economy

To enhance the local economy by adopting a cooperative and consistent approach to community decision making and resource management. This approach will help ensure economic stability and maintenance of all components of the Arctic ecosystem.

Information and recommendations required to satisfy the above goals for the Planning Area are described in the sections which follow.

4 SPECIAL AREAS AND RECOMMENDED LAND USE PRACTICES FOR THE PLANNING AREA

Most of the areas and recommended land use practices described in this section were originally identified in the Regional Land Use Plan for the Mackenzie Delta-Beaufort Sea Region (1991). These areas have been identified because they contain important wildlife habitat and/or harvesting areas. Recommendations have been revised and in some cases moved to more appropriate sections of this plan.

Guidelines for land use practices to be followed in these areas are included in the area descriptions which follow, as well as in other sections of this plan. A set of general land use recommendations is provided at the end of Section 4.1. A community-based process for arriving at land use decisions is presented in Section 4.2. Processes to assist with the management of cumulative impacts and recommendations for environmental screening and review of development proposals are presented in Sections 4.3 and Section 4.4, respectively.

In designating land use categories, the Inuvialuit community has attempted to recognize priority land uses and activities, as well as areas of special ecological and cultural importance. Land designations may be modified as additional information becomes available and provided the health and biological productivity of the planning area is maintained. Each area of importance has been given a letter designation corresponding to the categories below:

Category A

Lands where there are no known significant and sensitive cultural or renewable resources. Lands shall be managed according to current regulatory practices.

Category B

Lands where there are cultural or renewable resources of some significance and sensitivity but where terms and conditions associated with permits and leases shall assure the conservation of these resources.

Category C

Lands and waters where cultural or renewable resources are of particular significance and sensitivity during specific times of the year. These lands and waters shall be managed so as to eliminate, to the greatest extent possible, potential damage and disruption.

Category D

Lands and waters where cultural or renewable resources are of particular significance and sensitivity throughout the year. As with Category C, these areas shall be managed so as to eliminate, to the greatest extent possible, potential damage and disruption.

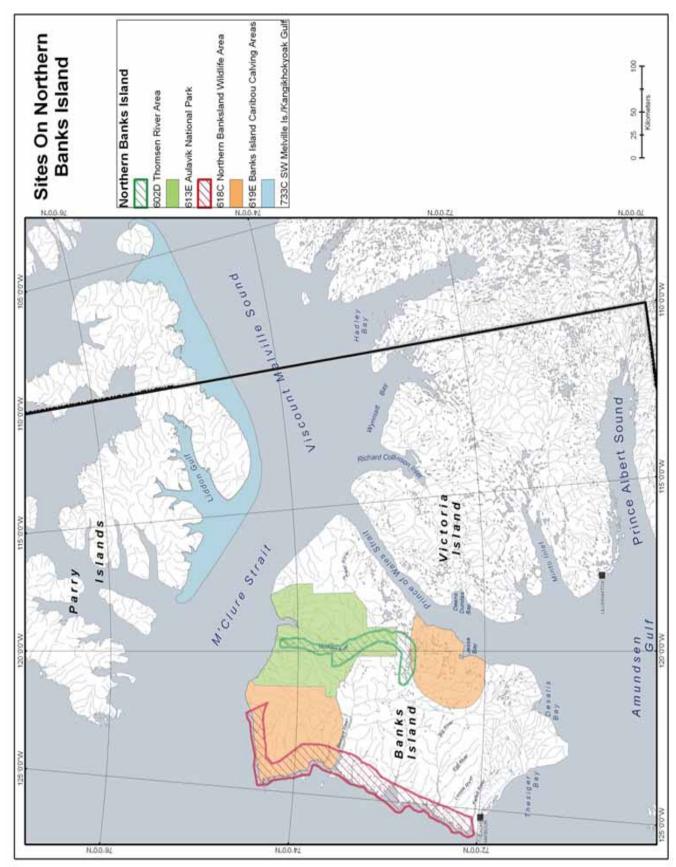
Category E

Lands and waters where cultural or renewable resources are of extreme significance and sensitivity. There shall be no development on these areas. These lands and waters shall be managed to eliminate, to the greatest extent possible, potential damage and disruption. This category recommends the highest degree of protection in this document.

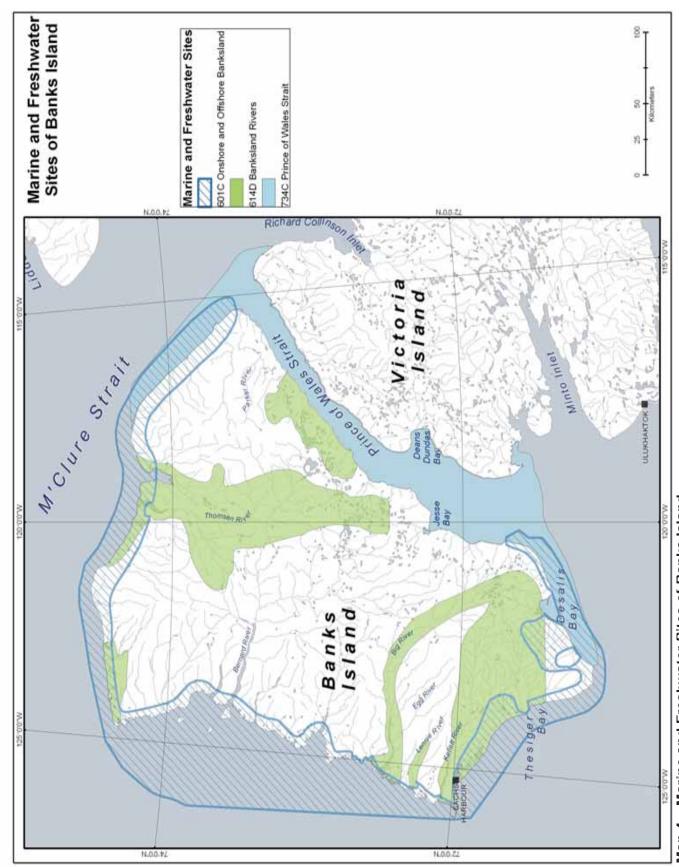
4.1 SACHS HARBOUR SUBREGION - SPECIAL DESIGNATED LANDS

Maps and detailed descriptions of the special designated lands listed below are described in the text which follows:

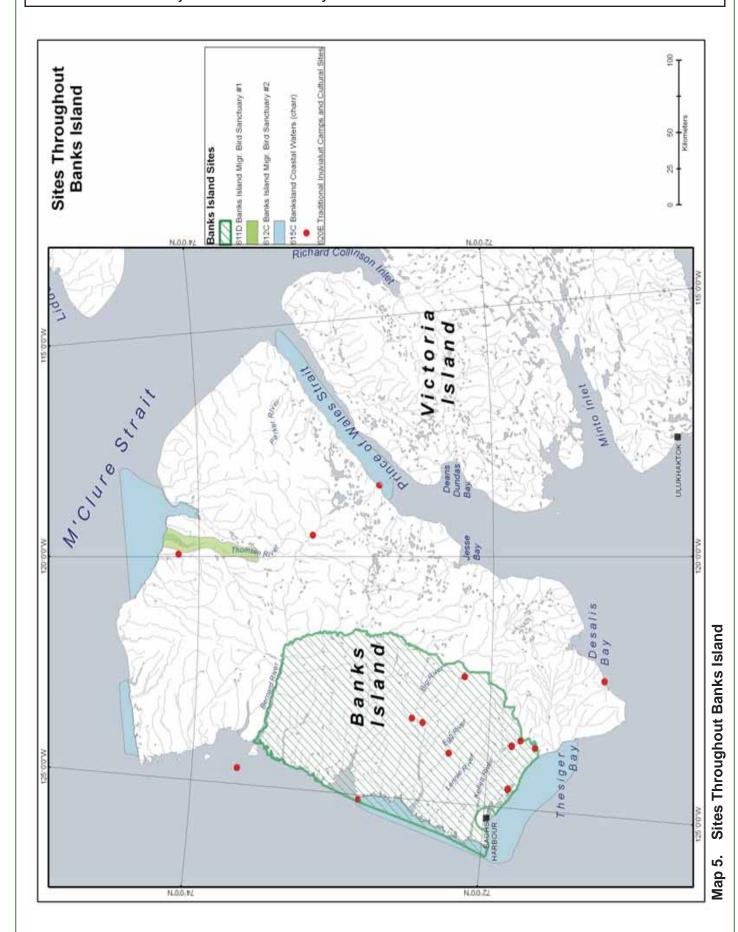
Site No.	Name	Map No.
601C	Offshore and Onshore Banksland	4
602D	Thomsen River Area	3
603D	Areas near or on Sachs, Kellett and Lennie Rivers including Siksik	0
CO 4 C	and Survey Lakes	
604C	Southern Banksland	
605E	Land Area Around De Salis Bay	
606E	Egg River and Big River JunctionArea South of Rufus River	
607D		
609E	Beluga Management Zone 1B Sites - De Salis Bay and Jesse Bay	0
610B	Beluga Management Plan Zone 3 - Waters Greater than 20m Deep	Not Mannad
611D	in Beaufort Sea, Amundsen GulfBanks Island Migratory Bird Sanctuary No.1	
612C		
613E	Banks Island Migratory Bird Sanctuary No.2Aulavik National Park	
614D	Banksland Rivers	
615C		
616D	Banksland Coastal areas adjacent to rivers supporting Arctic charr Offshore Amundsen Gulf and Beaufort Sea	
618C		
	Northern Banksland Special Wildlife Area (Polar Bear Denning Area)	
619E	Banks Island Caribou Calving Grounds	
620E	Traditional Inuvialuit Camps and Cultural Sites (Mapped Only Text Not Ava	,
733C	Southwestern Melville Island & Kangikhokyoak (Liddon) Gulf Coastline	
734C	Prince of Wales Strait	4

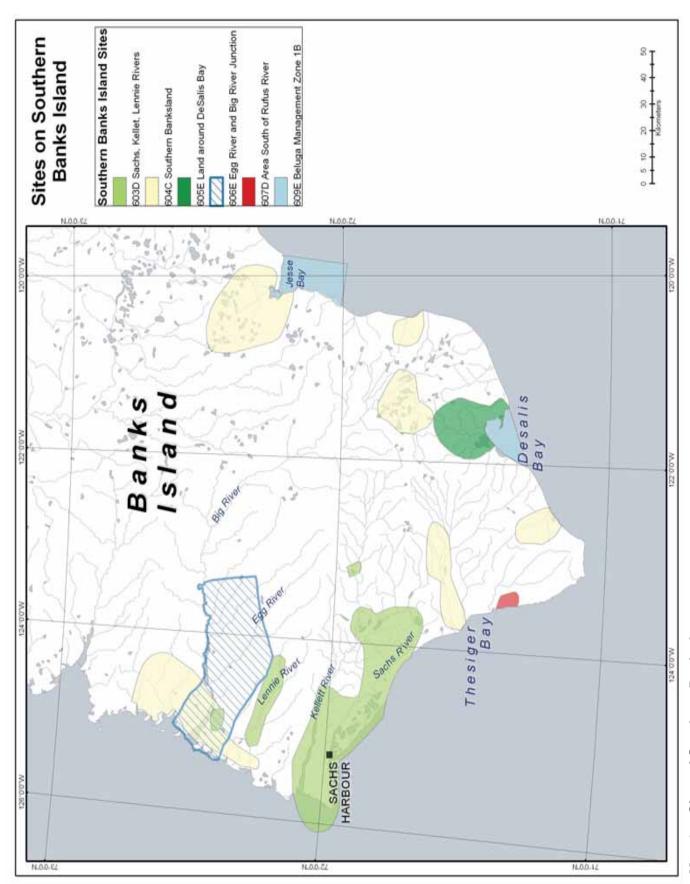


Map 3. Sites on Northern Banks Island

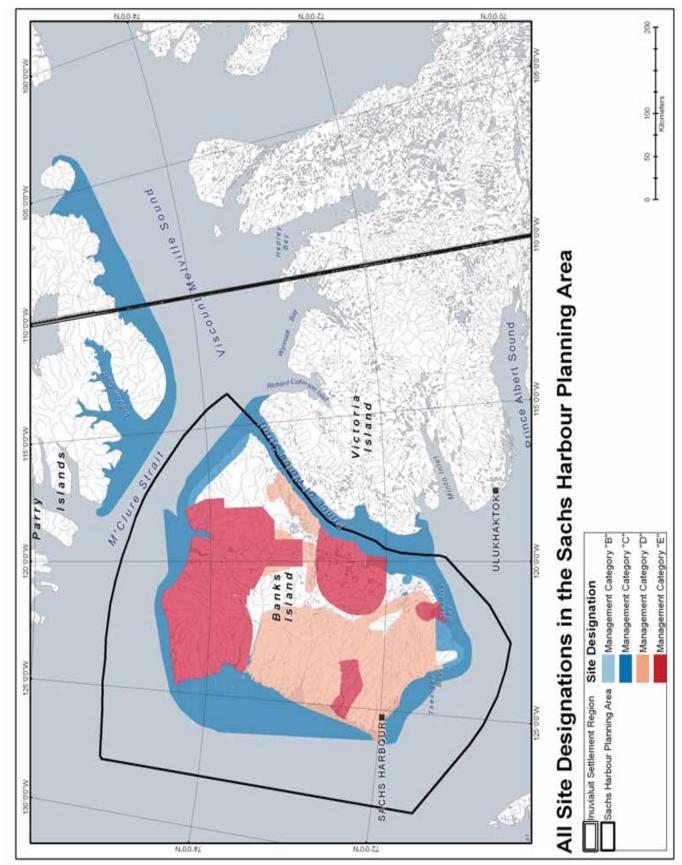


Map 4. Marine and Freshwater Sites of Banks Island





Map 6. Sites of Southern Banks Is-



Map 7. Overlay of All Site Designations in the Sachs Harbour Planning Area

BANKSLAND SUBREGION - SPECIAL DESIGNATED LANDS

SITE NO. 601C OFFSHORE AND ONSHORE BANKSLAND

Identified By

Sachs Harbour Community Working Group

Management Category

 \mathcal{C}

Ownership

Onshore Private 7(1)(a), 7(1)(b) and public (Crown) waters; offshore public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The site includes offshore and onshore areas of north, west, and south Banksland except along Prince of Wales Strait (see Site No. 13). It ends at Treadwell Point at the south end of Prince of Wales Strait. The site ranges on average, 10-15 km (6.2-9.3 mi) offshore and 5-10 km (3.1-6.2 mi) onshore (20-25 km (12.4-15.5 mi) inland between De Salis Bay and Nelson Head). It includes the ice cover from October to June with open ice and ice floes for the remainder of the year.

Importance of the Site to the Community of Sachs Harbour

Important to past and present subsistence harvesting of seals (year-round), fish (April-Oct.), waterfowl (May-Sept) and polar bears (Nov.-May). Specifically, subsistence harvesting of ringed and bearded seal from March to May, and year round at Thesiger Bay. Sports and subsistence harvest of polar bears occurs from December to May, throughout the area.

Important habitat for seals' lairs and denning polar bears from November to May, especially along the northwest and southern coasts of the island, particularly at Nelson Head.

The Community Working Group specifically identified De Salis Bay as important nesting habitat for eider ducks and brant geese from May to July.

Overlapping Lands of Territorial, National, and International Conservation Interests

Areas near or on Sachs, Kellet and Lennie rivers including Siksik and Survey lakes (Site No. 603D)

Banksland Coastal Areas Adjacent to rivers supporting Arctic Charr (Site No. 615C)

Parker River Wildlife Area of Interest (Site No. 617D)

Northern Banksland Special Wildlife Area (Polar Bear Denning Area) (Site No. 618C)

Prince of Wales Strait (Site No. 734C)

Overlapping Nonrenewable Resources Interests and Activities

Scattered granular deposits within the area, including offshore deposits near Rufus Creek.

Overlapping Military, Transportation, and Tourism Interests and Activities

Possible tanker traffic, seismic activity and related low level flying. Shipping and community resupply.

Sports harvest of polar bears and tourism boat tours to Masik River and other coastal sites.

Community Concerns

The Community Working Group is concerned that ship traffic, especially tankers, and seismic activity and related low level flying could cause the cumulative destruction of seal lairs and polar bear den sites in multi-year ice, and that noise from ships could affect polar bear and seal communication and social functions. The Community Working Group is concerned that activities like ocean dumping could have a negative impact on the nutrient rich waters from Sea Otter Island to Sachs Harbour.

Community Guidelines

- The DFO, FJMC and HTC should continue to ensure the bowhead whale is protected from the impacts
 of industrial or other commercial development. The FJMC should continue to ensure that harvests are
 well managed.
- 2. The DFO, FJMC and HTC should ensure sensitive offshore areas are protected, including polynyas.
- 3. DFO and FJMC should ensure careful commercial harvest of shellfish resources if it occurs.
- 4. HTC should protect the core polar bear denning areas from November to March as pursuant to the International Agreement on the Conservation of Polar Bear and the Polar Bear Management Agreement for the Southern Beaufort Sea (see also Section 8.4, Polar Bear). DOT should designate flight restrictions over key polar bear denning area.
- 5. ILA should protect De Salis Bay for its nesting eider duck and brant geese habitat from May to August. The community has designated this as Category E land.
- 6. Land Use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan, including those of Sections 6.1.1 through 6.4.

SITE NO. 602D THOMSEN RIVER AREA

Identified By

Sachs Harbour Community Working Group

Management Category

D

Ownership

Public (Crown) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The site extends along most of the length of the Thomsen River in northern Banksland. It includes a corridor that is approximately 5 to 10 km wide.

Importance of the Site to the Community of Sachs Harbour

Important to past and present subsistence fishing of trout, charr and cisco in the summer and fall.

Denning area for arctic wolf.

Numerous archaeological and cultural sites along the river.

Overlapping Lands of Territorial, National, and International Conservation Interests

Offshore and Onshore Banksland (601C)

Banks Island Migratory Bird Sanctuary No.2 (Site No. 612C)

Aulavik National Park (Site No. 613E)

Banksland Rivers (Site No. 614D)

Banks Island Caribou Calving Ground (Site No. 619E)

Overlapping Nonrenewable Resource interests and Activities

Currently some tourism use in the area; likely to grow with the increase in eco-tourism worldwide.

Community Concerns

Tourists removing artifacts from the cultural sites.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 603D AREAS NEAR OR ON SACHS, KELLETT AND LENNIE RIVERS INCLUDING SIKSIK AND SURVEY LAKES

Identified By

Sachs Harbour Community Working Group

Management Category

D

Ownership

Kellet, Lennie, Sachs Rivers - Private 7(1)(a) 7(1)(b) lands; Siksik and Survey Lakes - Private 7(1)(b) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The site includes the islands in the shallow offshore area located west of the community of Sachs Harbour and extends along the Sachs River to Raddi Lake, then north to include part of Kellet River. A separate site just north of this includes part of Lennie River. Siksik Lake along the Big River and Survey Lake along the Kellet River are included in this site.

Importance of the Site to the Community of Sachs Harbour

Important to past and present subsistence fishing (trout, lake trout, charr and cod) and caribou and muskox harvest area year-round.

The Community Working Group has identified the Kellet and Lennie River areas as important nesting and moulting habitats for brant and snow geese in May and June and as an important subsistence harvest area for geese.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Banksland Rivers (Site No. 614D)

Overlapping Nonrenewable Resource Interests and Activities

Some granular deposits along Sachs River.

Overlapping Military, Transportation, Tourism Interests and Activities

Potential interest in ecotourism and sports hunting.

Community Concerns

Community Working Group feels these are very important sites and should be protected from future development.

Community Guidelines

- 1. FJMC and HTC should continue to protect the fisheries resources in the area. These sites are on private land so IFA fishing restrictions imposed by the HTC exist.
- 2. ILA should protect these sites from land use activities which may negatively affect fish habitat, nesting habitats of the birds, (especially from May to June) and subsistence activities in the area.
- 3. FJMC should identify Survey Lake and Siksik Lake as priority subsistence fishing areas and all lakes within a 50-mile radius, north and northeast of Sachs Harbour.
- 4. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 604C SOUTHERN BANKSLAND

Identified By

Sachs Harbour Community Working Group

Management Category

C

Ownership

Private 7(1)(b) and public (Crown) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The site is made up of six areas along rivers or the coastline. One area is the lakes and the upstream portion of the De Salis River. None of the other areas extend further than 15-20 km (9.3-12.4 mi) inland.

Importance of the Site to the Community of Sachs Harbour

The lakes in the De Salis River area and the upstream portion of the river are important for past and present subsistence fishing of charr and trout in the spring.

The other six sites are used for subsistence harvesting of Peary caribou (from July to December), muskox, and fish.

Overlapping Lands of Territorial, National, and International Conservation Interest

Onshore and Offshore Banksland (Site NO. 601C)

Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Banksland Rivers (Site No. 614D)

Banks Island Caribou Calving Grounds (Site No. 619E)

Overlapping Nonrenewable Resource Interests and Activities

None.

Overlapping Military, Transportation, Tourism Interests and Activities

Existing or potential tourism areas and commercial fly-in fishing destinations.

Community Concerns

The Community Working Group considers this a very important subsistence harvest area and would like to

see no land use that conflicts with these activities.

The Community Working Group is concerned with commercial fly-in fishing at De Salis River and lakes area.

The Community Working Group would like to see Peary caribou protected from disturbance because of the small size of the herd. They believe the growing muskox population is threatening the caribou, which therefore need to be protected from disturbance.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 605E LAND AREA AROUND DE SALIS BAY

Identified By

Sachs Harbour Community Working Group

Management Category

F

Ownership

Private 7(1)(b) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Land area covered by IFA De Salis Bay land selection.

Importance of the Site to the Community of Sachs Harbour

Important area for nesting brant geese and other species from June to September.

Overlapping Lands of Territorial, National, and International Conservation Interest

Banksland Rivers (Site No. 614D)

Banks Island Caribou Calving Grounds (Site No. 619E)

Overlapping Nonrenewable Resource Interests and Activities

None.

Overlapping Military, Transportation, and Tourism Interests and Activities

Potential tourism area and commercial fly-in fishing destination.

Community Concerns

The Community Working Group feels the area represents a particularly sensitive site for waterfowl and other animals, both onshore and offshore.

Community Guidelines

- 1. No development or other disruptive land use activity should be allowed in this area.
- 2. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 606E EGG RIVER AND BIG RIVER JUNCTION

Identified By

Sachs Harbour Community Working Group

Management Category

F

Ownership

Private 7(1)(b) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Area of elevated ground in vicinity of Egg River and Big River junction.

Importance of the Site to the Community of Sachs Harbour

Very important nesting and moulting area for geese and other birds from May to September.

Overlapping Lands of Territorial, National, and International Conservation Interest

Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Banksland Rivers (Site No. 614D)

Overlapping Nonrenewable Resource Interests and Activities

None.

Overlapping Military, Transportation, and Tourism Interests and Activities

Potential tourism area outside of nesting period.

Community Concerns

The Community Working Group feels the area represents a particularly sensitive site for waterfowl and other animals.

Community Guidelines

- 1. No development or other disruptive land use should be allowed in this area.
- 2. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 607D AREA SOUTH OF RUFUS RIVER

Identified By

Sachs Harbour Community Working Group

Management Category

D

Ownership

Private 7(1)(b) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The site is south of the mouth of Rufus River, along the southwest shore of Banksland.

Importance of the Site to the Community of Sachs Harbour

Archaeological significance and past and current subsistence harvesting of Peary caribou (July to December); and muskox from October to April.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Banksland Rivers (Site No. 614D)

Overlapping Nonrenewable Resource Interests and Activities

Offshore deposits of gravel near Rufus River.

Overlapping Military, Transportation, and Tourism Interests and Activities

Potential tourism value.

Community Concerns

The Community Working Group is concerned about the protection of archaeological sites found in the area. They feel land use activities like seismic could destroy the sites and tourism activities could lead to vandalism. The Community Working Group is concerned that existing legislation is not adequate to protect these areas.

The Community Working Group also considers the area important for subsistence harvest and would like Peary caribou to be protected from disturbance.

Community Guidelines

- 1. ILA shall recognize the cultural and historic importance of this site and must consult with the people of Sachs Harbour before issuing land use permits.
- 2. If the removal of artifacts from the sites in this area continues to be a problem in the future, a Travel Restricted Area should be established.
- 3. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 609E BELUGA MANAGEMENT ZONE 1B SITES - DE SALIS BAY AND JESSE BAY

Identified By

Fisheries Joint Management Committee

Management Category

E

Ownership

Public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Includes the waters of De Salis Bay at Banks Island and Jesse Bay at Victoria Island, situated on the Prince of Wales Strait.

Importance of Site to the Community Sachs Harbour

Appears to be important beluga habitat from August to September. Beluga are occasionally harvested by residents of Paulatuk and Holman. Residents of Sachs Harbour have shown interest in hunting beluga in the future. No systematic data on beluga distribution or abundance available for area.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (601C)

Prince of Wales Strait (Site No. 734C)

FJMC and Community Guidelines

- 1. In the review of any development proposal these areas are to be considered a Protected Area according to the guidelines described in the Inuvialuit Renewable Resource Conservation and Management Plan.
- 2. The oil and gas industry should not be permitted to explore for resources within these waters nor to produce hydrocarbons or construct/operate any type of facility.
- 3. No mining activities (e.g. gravel removal) should be permitted from break-up until August 15th.
- 4. Development activities such as hydro-electric developments, even if located outside of these areas should be evaluated for potential deleterious effects on water quality and quantity, or on the stability and integrity of ice in these waters.
- All shipping activities (including dredging) should be confined to designated routes and areas.
 Passage through or close to these waters outside of designated routes, even if it is the shortest route, should be avoided from break-up to 15 August.
- 6. No port development should be allowed within or on the shores of these waters.
- 7. It is recommended that parties proposing industrial development and government agencies evaluating development proposals and other parties interested in development within the zone, seek the advice of the HTC's. To ensure the protection of the beluga resource and harvest, HTCs should be consulted regarding any licences, permits or operating procedures approved for activities within the zones.
- 8. Commercial fishing proposals for these waters should be evaluated and regulated with regard to beluga food species (see also Section 8.4).

9. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4 and 8.0 through 8.4.

SITE NO. 610B BELUGA MANAGEMENT PLAN ZONE 3 - WATERS GREATER THAN 20 M DEEP IN BEAUFORT SEA, AMUNDSEN GULF

Identified By

Fisheries Joint Management Committee

Management Category

В

Ownership

Public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Includes the remaining geographic range of beluga in the Canadian Beaufort Sea and Amundsen Gulf (waters greater than 20 m (66 ft.) deep).

Importance of Site

Migrating beluga, summer feeding. (See also Zone 2 - Site No. 83). Deep water and distance preclude hunting in Zone 3.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore Amundsen Gulf and Beaufort Sea (Site No. 616D)

FJMC and Community Guidelines

- 1. Industrial activities or other projects may be permitted if they do not adversely affect the conservation of beluga and the protection of beluga habitat and beluga hunting, and they are conducted in a controlled and responsible manner.
- 2. Assessment of proposed activities must consider the direct effects on beluga (e.g. contamination, disruption, displacement) as well as indirect effects (e.g. stability and integrity of ice, timing of breakup, food availability).
- 3. Commercial fishing proposals should be evaluated and regulated with regard to beluga food species.
- 4. Assessments must consider the potential for cumulative impact and long-term effects.
- 5. It is recommended that parties proposing industrial development and government agencies evaluating development proposals and other parties interested in development within the zone, seek the advice of the HTC's. To ensure that protection of the beluga resource and harvest, HTC's should be consulted regarding any licences, permits or operating procedures approved for activities within the zones.
- 6. Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 611D BANK ISLAND MIGRATORY BIRD SANCTUARY NO. 1

Identified By

Canadian Wildlife Service

Management Category

 \Box

Protected under Migratory Birds Convention Act.

Ownership

Private 7(1)(a) and 7(1)(b) lands and public (Crown) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Encompasses a total of 20,523 km² (7,922 mi²), including the Adam, Storkerson, Big, Egg, Lennie, Kellett and Sachs Rivers.

Importance of Site to the Community of Sachs Harbour

Largest breeding colony of lesser snow goose in western Arctic. Thousands of nesting pacific brant, king eider, oldsquaw. Birds are present during part of the year - breeding season is May through June. Wetland habitat is sensitive year-round.

The Egg River/Big River Key Migratory Bird Terrestrial Habitat Site is within the bird sanctuary.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Areas Near or On Sachs, Kellett and Lennie Rivers including Siksik and Survey Lakes (Site No. 603D) Southern Banksland (Site No. 604C)

Egg River and Big River Junction (Site No. 606E)

Banksland Rivers (Site No. 614D)

Banksland Coastal Waters (Site No. 615C)

Northern Banksland Special Wildlife Area (Polar Bear Denning) (Site No. 618C)

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan.

SITE NO. 612D BANK ISLAND MIGRATORY BIRD SANCTUARY NO. 2

Identified By

Canadian Wildlife Service

Management Category

 \Box

Protected under Migratory Birds Convention Act.

Ownership

Public (Crown) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The sanctuary encompasses approximately 142 km² (35,200 acres) of the Thomsen River valley, from M'Clure Strait, southward about 30 km (19 mi) past Muskox River.

Importance of Site

Moulting area for lesser snow goose, Pacific brant. Birds are present during part of the year from May to September. Wetland habitat is sensitive year round.

The Thomsen River Key Migratory Bird Terrestrial Habitat Site is within the bird sanctuary and within Aulavik National Park.

Overlapping Lands of Territorial, National, and International Conservation Interest

Thomsen River Area (Site No. 602D)

Aulavik National Park (Site No. 613E)

Banksland Rivers (Site No. 614D)

Overlapping Military, Transportation, and Tourism Interests and Activities

Tourist activity related to Aulavik National Park.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

Note: More detailed guidelines covering this area are included in the Aulavik National Park Management Plan.

SITE NO. 613E AULAVIK NATIONAL PARK

Identified By

Parks Canada

Management Category

Includes current category A and E lands, and intermediate categories.

Legislatively protected under National Parks Act.

Ownership

Public (Crown) lands within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

The park encompasses 12,275 km² (4,738 mi²) of the Western Arctic Lowlands natural region of Banks Island, straddling the Thomsen River.

Importance of Site

Moulting area for lesser snow goose from June to July. Muskoxen concentration areas year-round.

Significant archaeological & historic sites.

Tourism values - Thomsen River, within the bird sanctuary.

Community Guidelines

Management Plan developed by Parks Canada and the Community of Sachs Harbour outlines the guidelines that apply. The plan is in the process of being approved by the Minister of Canadian Heritage.

Note: More detailed guidelines covering this area are included in the Aulavik National Park Management Plan.

Overlapping Lands of Territorial, National, and International Conservation Interest

Thomsen River Area (Site No. 602D)

Banks Island Migratory Bird Sanctuary No.2 (Site No. 612D)

Banksland Rivers (Site No. 614D)

Banks Island Caribou Calving Grounds (Site No. 619E)

Overlapping Military, Transportation, and Tourism Interests and Activities

Tourist activity through park visitation.

SITE NO. 614D BANKSLAND RIVERS

Identified By

Department of Fisheries and Oceans

Management Category

D

Ownership

Private 7(1)(a) 7(1)(b) lands and public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Includes the following rivers: Big, Lennie, Kellett, Sachs, Thomsen, Sandhill, De Salis, Mercy Bay West, Bar Harbour Creek, River and Bow Lake.

Importance of Site

Arctic charr stocks which are both anadromous and non-anadromous forms.

Sachs River/Raddi Lake - small anadromous Arctic charr stock harvested by residents of Sachs Harbour from April to October.

Thomsen River/Muskox River - migration route, spawning, nursery, overwintering habitat for anadromous Arctic charr and cisco.

Johnson Point/Headwater Lake - lake trout and/or Arctic charr present year-round residents or seasonal migrants.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Areas Near or On Sachs, Kellett and Lennie Rivers including Siksik and Survey Lakes (Site No. 603D) Southern Banksland (Site No. 604C)

Land Area Around De Salis Bay (Site No. 605E)

Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Banks Island Migratory Bird Sanctuary No.2 (Site No. 612C)

Aulavik National Park (Site No. 613E)

Parker River Wildlife Area of Interest (Site No. 617D)

Banks Island Caribou Calving Grounds (Site No. 619E)

Overlapping Military, Transportation, and Tourism Interests and Activities

Tourist activity related to Aulavik National Park.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 615CE BANKSLAND COASTAL AREAS ADJACENT TO RIVERS SUPPORTING ARCTIC CHARR

Identified By

Department of Fisheries and Oceans.

Management Category

C

E: Site is also within Aulavik National Park Boundary.

Ownership

Public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 and 2).

Description

Includes the coastal waters of: southwestern, northwestern, and northern Banks Island, Thesiger Bay and Prince of Wales Strait.

Importance of Site

Feeding of anadromous Arctic charr in open water.

Sachs River estuary may provide important seasonal habitat for Greenland cod from March to May.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Areas Near or On Sachs, Kellett and Lennie Rivers including Siksik and Survey Lakes (Site No. 603D) Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Prince of Wales Strait (Site No. 734C)

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 616D OFFSHORE AMUNDSEN GULF AND BEAUFORT SEA

Identified By

Department of Fisheries and Oceans

Management Category

D

Ownership

Public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 & 2).

Description

Beaufort Sea Transition Zone - from 10 km (6.2 mi) offshore to permanent ice pack.

Cape Bathurst Polynya - located in Amundsen Gulf.

Importance of Site

Beluga, bowhead migrating along lead system from overwintering areas in Bering Sea, and feeding. Abundant ringed seal on landfast ice of western Banksland. Bearded and ringed seal present in winter. General marine fish habitat.

Amundsen Gulf - Cape Bathurst Polynya is a highly productive area. Prime feeding area for beluga, bowhead. Calving may occur. Migrating in leads. Ringed and bearded seal use polynya in winter. Bearded seal pupping in shore leads from March to April. Large numbers ringed seal near Cape Kellett and De Salis Bay.

Southern Prince of Wales Strait - ringed seals, year-round.

Community Guidelines

Land use in Site No. 25 should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 618C NORTHERN BANKSLAND SPECIAL WILDLIFE AREA (POLAR BEAR DENNING AREA)

Identified By

Sachs Harbour Community Working Group

Management Category

C

Ownership

Crown lands and Private lands 7(1)(b) within the Inuvialuit Settlement Region.

Description

A 25 km (15.5 mi) strip in the northwestern nearshore, inland, from Storkerson River to the north shore of Banks Island.

Importance of the Site to the Community of Sachs Harbour

Critical polar bear denning area from November to April.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Banks Island Migratory Bird Sanctuary No.1 (Site No. 611D)

Banksland Rivers (Site No. 614D)

Banksland Coastal Areas Adjacent to Rivers Supporting Arctic Charr (Site No. 615C)

Banks Island Caribou Calving Ground (Site No. 619E)

Overlapping Nonrenewable Resource Interests and Activities

None.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 619E BANKS ISLAND CARIBOU CALVING GROUNDS

Identified By

Sachs Harbour Community Working Group

Management Category

Е

Ownership

Crown lands and Private lands 7(1)(b) within the Inuvialuit Settlement Region.

Description

Includes northwestern Banks Island - from M'Clure Strait to Bernard River; from Jesse Bay, radiating inland approximately 50 km (31 mi).

Importance of the Site to the Community of Sachs Harbour

Critical calving grounds for Arctic Islands and Peary caribou.

Overlapping Lands of Territorial, National, and International Conservation Interest

Offshore and Onshore Banksland (Site No. 601C)

Thomsen River Area (Site No. 602D)

Southern Banksland (Site No. 604C)

Aulavik National Park (Site No. 613E)

Banksland Rivers (Site No. 614D)

Northern Banksland Special Wildlife Area (Polar Bear Denning) (Site No. 618C)

Overlapping Military, Transportation, and Tourism Interests and Activities

Tourist activity related to Aulavik National Park.

Community Guidelines

Land use in site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

SITE NO. 733C SOUTHWESTERN MELVILLE ISLAND & KANGIKHOKYOAK (LIDDON) GULF COASTLINE

Identified By

Sachs Harbour and Holman Community Working Groups

Management Category

C

Ownership

Public lands within the Inuvialuit Settlement Region

Description

The site includes Liddon Gulf, Murray Inlet, Hardy Bay, Warrington Bay, and part of Kellet Strait on Melville Island.

Importance of the Site to the Communities of Holman and Sachs Harbour

Important to past and present subsistence harvesting of seal, primarily during the period from March to

May, although the hunting season extends from December to May.

Important habitat for polar bear and ringed seal and contains denning areas for bears and pupping areas for seals from November to May. The people of Holman and Sachs Harbour use Kangikhokyoak Gulf area up to 10-15 km (6.2-9.3 mi) offshore for subsistence hunting from November to May.

Overlapping Nonrenewable Resource Interests and Activities

Proposed Melville Island gas pipeline and related marine tanker traffic.

Overlapping Military, Transportation, and Tourism Interests and Activities

Marine shipping, seismic activity and low level flying.

Community Concerns

The Community Working Group is concerned that ship traffic, seismic activity and low level flying will negatively affect species and habitats of the region.

Community Recommendations

- 1. HTC and related joint management bodies should protect the habitat and species of this site from December to May.
- 2. The EIRB should facilitate a meeting between the Canadian Coast Guard and the community to discuss the mutual need for regulatory ship traffic in areas considered environmentally sensitive by the community.
- 3. The community requests that ship traffic be seasonally regulated to its satisfaction such that sensitive marine ecosystems are not adversely affected.
- 4. DENR should undertake a population census of polar bears in this area.

SITE NO. 734C PRINCE OF WALES STRAIT

Identified By

Sachs Harbour and Holman Community Working Groups

Management Category

С

Ownership

Public (Crown) waters within the Inuvialuit Settlement Region (Maps 1 & 2).

Description

The area extends offshore from Treadwell Point to Russell Point, along the entire length of Prince of Wales Strait, between Banks and Victoria Islands.

Importance of the Site to the Communities of Sachs Harbour and Holman

Past and present subsistence harvesting of ringed seals, bearded seals and polar bears. Used for travel between Sachs Harbour and Holman.

Important marine environment due to ocean currents and upwellings. Important beluga whale migration area, year round bearded seal habitat, and polar bear denning area from November to April .

Overlapping Lands of Territorial, National, and International Conservation Interest

Beluga Management Plan Zone 1B in Jesse Bay (Site No. 609E)

Banksland Coastal Areas Adjacent to Rivers Supporting Arctic Charr (Site No. 615C)

Overlapping Nonrenewable Resource Interests and Activities None

Overlapping Military, Transportation, Tourism Interests and Activities

International marine shipping through the Northwest Passage from Amundsen Gulf.

Canada claims this strait as part of its territorial sea, while other countries claim it as an international water way.

International law enables foreign-flag vessels the right of innocent passage in Canada's territorial sea and the right of freedom of navigation seaward of this 12-mile limit.

Community Concerns

The Community Working Group is concerned that Prince of Wales Strait, which is part of the Northwest Passage, could be used for year-round shipping by domestic and foreign ships and tankers. They are also concerned about Canada's ability to prevent foreign tankers from using the Passage.

Ship traffic would affect the habitat of marine mammals like seals and polar bears; the noise could disturb the social organization of seals; and, open water shipping channels would be dangerous to people travelling on the ice. If tanker traffic were allowed it could potentially result in environmentally devastating oil spills.

Community Guidelines

- 1. EIRB should recognize the sensitive marine environment of the strait in particular, protect seal lairs during pupping season (January to May), denning polar bears (November to April) and the belugas during migration (June to September).
- 2. FJMC, DFO and CWS should identify Prince of Wales Strait as a high priority (#1) for future marine ecosystem research.
- 3. Canadian Coast Guard should pursue the Public Review Panel on Tanker Safety and Marine Spills Response Capability recommendations to amend the Canada Shipping Act; to use the *Arctic Waters Pollution Prevention Act*; and, to use overland pipelines to transport Arctic crude oil from the Beaufort Sea. Specifically, the Community Working Group recommends that no winter ship traffic be allowed through the Prince of Wales Strait (November to June inclusive).
- 4. Site should be consistent with other guidelines described in the Sachs Harbour Community Conservation Plan including those of Sections 6.1.1 through 6.4.

4.1.1 General Land Use Guidelines

These recommended guidelines relate to all lands in the Inuvialuit Community Planning Area for Sachs Harbour:

- 1. The Inuvialuit Community, the WMAC (NWT), FJMC, IGC, EISC, EIRB and ILA will rely on their procedures, the Sachs Harbour Community Conservation Plan and the provisions of the IFA to ensure the protection of the Sachs Harbour community harvesting areas that are within the ISR.
- 2. All Inuvialuit and non-Inuvialuit bodies with an interest in the planning area acknowledge and actively support the Sachs Harbour Community Conservation Plan, associated land use designations and recommendations.
- 3. The Community supports the maintenance of the bird sanctuaries.
- 4. The protective status of all other candidate areas (areas identified by non-Inuvialuit) for protection be resolved by having the government (e.g. Minister of the Environment, Minister of Fisheries and Oceans and GNWT and YTG, Minister of Renewable Resources) demonstrate to the satisfaction of the Community, WMAC (NWT and North Slope), FJMC and IGC that such areas are necessary.
- 5. All regulatory agencies support the priority land uses as outlined in the Sachs Harbour Community Conservation Plan.
- 6. Individuals wishing to build a camp will abide by any camp-building bylaw specified by the HTC.
- 7. The permission granting authority for camps on private land is ILA. ILA has adopted a practice to canvass for comments from existing cabin owners within a 8 km (5 mi) radius and will base a decision for a permit on the merits of each case and not on an HTC bylaw. Reasonable concerns or comments will be considered.
- 8. The Community, HTC, WMAC (NWT) and FJMC will encourage the people of Sachs Harbour and others using and visiting the area to keep the land clean and to bring back any garbage for disposal at the local dump or other appropriate location (as determined by the community).
- 9. The Prince of Wales Northern Heritage Centre and DIAND should implement protection of heritage resources through a strengthened *Heritage Resources Act*.

4.2 INUVIALUIT COMMUNITY PROCESS FOR LAND USE DECISIONS

The community land use decision making process involves a number of steps which are described below and also presented graphically in Appendix G.

- 1. The Community Corporation (for Private Lands) and Hunters and Trappers Committee (for Crown Lands) receive notification of development proposals from the Inuvialuit Land Administration, DIAND and/or the EISC.
- 2. The Community Corporation and HTC hold separate meetings to discuss the proposal.
- 3. The Community Corporation and HTC review relevant sections of the Community Conservation Plan with careful consideration of management categories (Section 4) and independently pass on their concerns to the ILA and/or the EISC.
- 4. The HTC and Community Corporation formally work together to develop a consensus or community-based land use decision in special cases.
- 5. The HTC and Community Corporation will hold a secret ballot when considered necessary.
- 6. The Community Corporation and HTC review relevant sections of the Community Conservation Plan with careful consideration of management categories (Section 4).
- 7. The ILA or EISC (see Section 4.4) review the responses and decide whether to grant approval (where the ILA is involved) or to refer the project to the Environmental Impact Review Board (for further public review) or to the appropriate government department for permitting (where the EISC is involved).

4.3 CUMULATIVE IMPACTS MANAGEMENT

Cumulative impacts occur when changes to the environment, both good and bad, add to one another over time. Several small impacts may appear unimportant when they occur but, if continued, may result in a large impact over time. Successful management of cumulative impacts involves the following three steps:

- Clearly identify the type of environment and lifestyle you want in the future;
- Monitoring environmental change;
- Appropriate decision making.

In order to better account for incremental or gradual losses of wildlife habitat resulting from changes in land use over time, the Community, as represented by the HTC and Sachs Harbour Community Corporation, will re-designate areas of remaining habitat in a given land use category (Category A, B, C, D) to a more protective category (Category B, C, D, E) in proportion to the amount of effective habitat lost or affected by the authorized land use.

For example, if a proposed land use has negative effects on five percent of Category A wildlife habitat, then five percent (or any other amount) of what Category A habitat remains would be re-designated Category B or higher until such time as the impact of the land use has stopped and the land restored to its original ecological productivity.

This process acknowledges the principle that as wildlife habitat is lost, that which remains becomes more valuable and should require greater public support to alter. Re-designation will be carried out coincident with the two-year conservation plan review by the Community Working Group, and the complete review by all stakeholders every four years.

4.4 ENVIRONMENTAL SCREENING & REVIEW

Review of development proposals within the Inuvialuit Settlement Region is carried out in a cooperative manner and primarily involves the EISC, the EIRB and ILA (as described in Section 1.2 and Appendices F and G). These committees routinely seek the advice and comments of the community in reaching their decisions.

At the present time, the ILA is able to specify enforceable conditions for attachment to ILA Land Use Permits on Inuvialuit 7.1(a), 7.1(b) Lands. On Crown lands within the Inuvialuit Settlement Region non-Inuvialuit bodies, such as DIAND, are responsible for attaching conditions to land use permits. ENR issues wildlife research permits and tourism licences. The Prince of Wales Northern Heritage Centre issues permits for archaeological research. Within a national park, Parks Canada issues permits.

4.4.1 Recommendations

- 1. DIAND and ILA work together wherever possible to develop a consistent set of general land use procedures.
- 2. The Community recommends that the ILA require developers to indicate the extent to which relevant elements of their development are at variance or consistent with Section 19 (Conduct of Operations in the ILA Rules and Procedures) (Appendix I of this plan).
- 3. Environmental Screening Procedures The HTC, IGC, WMAC (NWT), WMAC (NS) and the FJMC will periodically review the Environmental Impact Screening Committee, Environmental Impact Review Board and Inuvialuit Land Administration operating rules/guidelines and procedures, and offer advice with regard to any changes that may be required to help improve environmental screening and review.
- 4. Regulatory bodies with jurisdiction over lands within the ISR should work with the Community to ensure that developers are bound to adequately address the Community's environmental concerns. These regulatory bodies should also work with the Community to identify practical state-of-the-art mitigation and reclamation techniques and to involve local people as environmental inspectors (see Section 5.0).
- 5. Reclamation Plans As part of land use permits, reclamation plans should be agreed to and a costing mechanism (e.g. bond, promissory note) established to ensure compliance.
- 6. Consultation The Community should be consulted on all land use activities in the Sachs Harbour Planning Area.
- 7. Revoke Permits Where there is a violation of land use permit conditions deemed serious by the SHHTC or Sachs Harbour Community Corporation, the permitting agency (e.g. ILA, DIAND) shall investigate immediately and take appropriate action which, with HTC support, may include revoking permits.
- 8. Education The Environmental Impact Screening Committee, Environmental Impact Review Board, and Inuvialuit Land Administration should increase community awareness of their mandates and activities (see also Section 5.0).
- 9. The Inuvialuit Community in Sachs Harbour will:
 - (a) Carefully review all land use proposals and only give their support to land use activities where they are consistent with the Sachs Harbour Community Conservation Plan.
 - (b) Through the HTC, IGC or the IRC, refer any projects on Inuvialuit Land that may be in conflict

- (c) Through its HTC, consult with developers on projects proposed within the Sachs Harbour Planning Area;
- (d) With the assistance of the IGC, familiarize itself with the terms and conditions of any relevant Wildlife Compensation Agreements prior to signing off by the IGC and Developer.
- (e) Through its HTC, advise the EISC or ILA of community concerns about development projects in the Sachs Harbour Planning area;
- (f) Develop a monitoring system with industry, transportation companies and local tourist operators to determine the numbers, impacts and rate of increase of activity to provide the data for increased regulations as required.
- (g) Through the HTC, ensure that community harvest data are kept current in order to facilitate development of practical and fair Wildlife Compensation Agreements.

5 EDUCATION, TRAINING AND INFORMATION EXCHANGE

The successful implementation of the Sachs Harbour Community Conservation Plan will require ongoing efforts to educate, train and exchange information. The community recommends that the WMAC (NWT) and FJMC work with other Inuvialuit and non-Inuvialuit agencies to obtain funding and expertise to fulfill the following initiatives:

- (a) Prepare an educational audio and video tape or tapes on the local ecosystem, the people, conservation practices and the Inuvialuit Final Agreement.
- (b) Organize training for local Inuvialuit in environmental inspection and monitoring as well as proper harvesting techniques.
- (c) Prepare summaries (written summaries and as translated audio tapes) of the Sachs Harbour Community Conservation Plan suitable for school use and for elders.
- (d) Prepare home education package (for delivery by parents) to convey cultural values, language and conservation.
- (e) Develop and implement a Community Information Program to present and explain the Sachs Harbour Community Conservation Plan.
- (f) Promote the use of environmentally friendly products and proper handling of hazardous wastes.
- (g) Encourage researchers visiting the area to make presentations to the Community, and to convey the results of their studies.
- (h) Continue to record and convey traditional knowledge of the land, culture, wildlife, and conservation.
- (i) The Community should actively assist with the undertaking of the above initiatives.
- (j) Continue to promote the use of the local language among the young and others with an interest.

6 WILDLIFE MANAGEMENT AND RESEARCH

The Community supports the general wildlife management process as described in the Inuvialuit Renewable Resource Conservation and Management Plan (1988) and the IFA.

Improvements to the system can be made in terms of more use of local knowledge, more community involvement in wildlife research and better communication between the Community, government agencies, researchers and the joint management groups. To that end, the Community has developed preliminary guidelines for wildlife management and conservation, including subsistence and commercial harvesting, tourism and local enjoyment. The Community has incorporated local knowledge and outside expertise in developing a one page conservation summary for each species of concern in the area (Section 6.4).

6.1 GENERAL GUIDELINES

To implement the strategy for wildlife management and research the following steps will be taken:

1. The Sachs Harbour HTC will:

- (a) Provide advice and information to the IGC and the joint management groups on wildlife management and research programs in the Planning Area.
- (b) Through its membership on the IGC and the joint management groups, inform government agencies of its priorities for wildlife research in the Planning Area.
- (c) Support conservation initiatives for shared migratory species developed by others, where the Inuvialuit bodies with a mandate for wildlife management endorse those initiatives (see Section 6.1.2(f)).
- (d) Participate in wildlife research projects in the Sachs Harbour Planning Area, when they have been consulted and support such projects.
- (e) Discourage the use of aircraft for low level (<610 m) (<2,000 ft.) wildlife spotting at any time unless being done in conjunction with authorized research to avoid unnecessary disturbance or harassment of wildlife (see also Section 6.3(c)).
- (f) Monitor the state of the wildlife and habitats in the Planning Area in cooperation with the biologists employed by the Government of the NWT, FJMC, DFO, and DOE and report any concerns to the WMAC (NWT) and FJMC through the HTC and the IGC.
- (g) Regulate Inuvialuit harvesting using bylaws, resolutions and traditional conservation methods as described in this plan (see Section 6.4), or when this is recommended through community monitoring, by the joint management committees or the IGC.
- (h) Keep the joint management bodies informed, through the HTC, of education programs (see Section 5.0) which are needed to increase community awareness of conservation, wildlife management and research.
- (i) Where appropriate, participate in the development and delivery of education programs (see Section 5.0).
- (k) Encourage active participation in implementing the Sachs Harbour Community Conservation Plan. Membership and privileges associated with membership in the HTC will only be granted where individuals support the plan to the satisfaction of the HTC membership.

(I) Manage all harvests on a sustained yield basis.

2. The WMAC (NWT), FJMC and IGC will:

- (a) Assist the Community in obtaining periodic monitoring information on the health of the environment.
- (b) Assist the Community in updating its species conservation summaries as required.
- (c) Make more use of the media to publicize their activities in the Sachs Harbour Planning Area (see 5.0(k)).
- (d) Recommend to the Aurora Research Institute of the Northwest Territories, the CWS, the DFO and the GNWT that they continue to work with both groups to develop a consistent process for community consultation on wildlife research and the distribution of research results to the community (see also Section 5.0). They (FJMC, WMAC (NWT), IGC) will further recommend that as part of their research permit, all researchers in the planning area present, mail or fax a one page summary of the work undertaken to the HTC, within one month of leaving the area.
- (e) Respond to community initiatives for conservation measures and education programs.
- (f) Develop a consistent set of biological criteria for establishment of harvest quotas in cooperation with the HTC.
- (g) Cooperatively review the research on impacts and risks of ship traffic to denning polar bears, seal pupping, migratory birds and hunter activity and determine whether additional research is necessary. Where additional studies are warranted these bodies should pursue funding or other support for such work. Particular attention should be paid to identifying high risk areas and developing appropriate mitigation.

3. Community, the WMAC (NWT), FJMC and IGC will:

- (a) Support the development of species management plans for species shared with other jurisdictions, when such plans are prepared in consultation with all groups. In the interim, these bodies and the people represented will endorse and follow conservation guidelines provided in the species summaries (Section 6.4).
- (b) Ensure that Inuvialuit are aware that animal numbers typically increase and decrease with the seasons and over the years as part of natural cycles. Ensure that harvesting and management programs consider the natural cycles of animal abundance.
- (c) Support proposals for renewable resource development in the Planning Area, when they are consistent with the Principles of the IFA, the Regional Conservation Plan, and with the Community Conservation Plan.
- (d) Revise the species conservation summaries listed in Section 6.4 during plan review conducted every four years.

6.2 SUBSISTENCE AND COMMERCIAL HARVESTING - GENERAL GUIDELINES

Under the Inuvialuit Final Agreement (Section 14(36)(a)) the Wildlife Management Advisory Council (NWT) is required to determine the total allowable harvest for game to ensure long term resource conservation. The effectiveness of this activity is very dependent on the cooperation of local subsistence harvesters in Sachs Harbour and those involved in promotion of commercial wildlife harvesting.

Quota and tag allocation within the Community is done as follows: Tags are allocated on a first come first serve basis. If oversubscribed then unsuccessful hunters return the tag and it is given to the next on the list. Where tags are received, the HTC decides how many will be allocated for sport hunts. The HTC Board of Directors are responsible for allocating tags and regulating the practices of its members.

In addition to recommendations and guidelines described elsewhere in this document, the guidelines below will be followed:

- (a) Subsistence harvest and traditional patterns of land use associated with subsistence harvesting will take precedence over commercial harvesting.
- (b) Subsistence and commercial harvesting will be done in a manner consistent with the Sachs Harbour Community Conservation Plan, specific population goals and conservation measures stated in the species conservation summaries.
- (c) Commercial harvesting of plans and wildlife will be undertaken in a manner developed cooperatively with and endorsed by the FJMC (for crustaceans, fish, seals, whales), WMAC (NWT) (for all other animals and plants), IGC and the GNWT.
- (d) Where a commercial quota is identified and considered consistent with conservation for a given species (for example, charr, muskox) a percentage of quota will be retained to preserve the opportunity for small scale operations (for example, sport hunting, individual supply to commercial market).
- (e) Harvests will be monitored monthly by the Inuvialuit Harvest Study in order to provide information necessary for compensation and resource conservation.
- (f) Where fishing areas are restricted to allow populations to recover, the HTC will work cooperatively with the FJMC to provide the community with alternate fish resources.
- (g) The Community will consider and support the use of alternate harvesting methods (e.g. humane traps) where there is a demonstrated need and benefit.

6.3 TOURISM GUIDELINES

The Community of Sachs Harbour believes tourism is a valuable economic activity within the area which is compatible with conservation and cultural needs, provided it is properly managed. The Community recognizes the need to maintain the environment and cultural lifestyles in order to promote tourism. To do this the Community recommends the following:

- (a) The total number of tourist operators and/or tourists should be restricted in certain areas at certain times of the year (e.g. nesting and moulting areas for migratory birds, calving areas, denning areas.)
- (b) The ILA and ENR will request that all tourist operators (Inuvialuit and non-Inuvialuit) be licensed, endorse the Sachs Harbour Community Conservation Plan and follow its recommendations as one of the conditions of operators license or permit. Licences may be revoked when operators contravene the recommendations and guidelines of this Plan and the conditions of their permit.
- (c) Aircraft should fly no lower than 1,067 m (3,500 ft) over a migratory bird sanctuary during times when nesting birds are present.
- (d) Aircraft will not be permitted to land at sites where concentrations of nesting birds may occur, with the exception of emergencies.
- (e) Aircraft will not be used for low level (<610 m) (<2,000 ft.) wildlife spotting at any time unless being done in conjunction with authorized research.
- (f) Wolf dens should be approached no closer than 500 m (547 yd.) if wolves are present.
- (g) Tourists and tourist operators should not handle or harass wildlife. Do not approach active nests of snowy owls, peregrine falcon, gyrfalcon or rough-legged hawks closer than 150 m (492 ft.). Avoid frequent visits to nesting areas.
- (h) DIAND or ILA should establish a Travel Restricted Area to protect heritage resources when necessary. For greater certainty commercial tourism to culturally significant areas should only be allowed where it has the support of the HTC and Community Corporation.
- (i) ENR should inform tourist operators of concerns regarding protection of heritage resources when issuing outfitting licences.
- (j) Tourists and tourist operators shall respect any bylaws with respect to tourism passed by the HTC or Community Corporation.

6.4 SPECIES CONSERVATION SUMMARIES

The following Species Conservation Summaries have been prepared by the Community in consultation with the WMAC (NWT), FJMC and IGC. Both local indigenous knowledge and that of others with expertise has been used. General conservation measures are provided in addition to those to be followed in the event of declining wildlife populations. Additional information on important wildlife habitat is contained in the Land Use Section (4.1).

The WMAC(NWT) commissions ENR and CWS to provide updated Species Status Reports on an annual basis for species in the NWT portion of the ISR.

Species Conservation summaries will be updated every two years by the WMAC (NWT), with input from the appropriate agencies. In most cases, precise population or threshold levels remain to be specified. The WMAC (NWT), FJMC, IGC, CWS, GNWT and DFO are encouraged to move forward with species management plans, with priority to species of importance to the Community and which may be impacted by likely developments.

ARCTIC FOX (Alopex lagopus) / TIGIGANNIAQ

Biology

Breed in March, denning April, pups active in May; may stay near den until October. May have from 8 to 20 young. Appears to be four year population cycle (likely coincident with cycle in lemmings), have been abundant past five years. Feed on lemmings and birds. May move great distances (e.g. Alaska to Banks Island).

Traditional Use

Furbearer.

Important Habitat

Arctic fox widespread above treeline, often near coastal areas. Red Fox widespread below treeline.

Management Plans/Agreements

None.

Recent Research

RWED (2000) Co-Management Plan for Caribou, Muskox, Arctic Wolves, Snow Geese, and Small Herbivores on Banks Island, 1998/99 to 2002/2003 (DRAFT).

Research Priority

Low: though there is interest/concern over rabies.

Population Status

Can be highly variable year to year.

Population Goal

Unspecified.

- Identify and protect important habitats from disruptive land uses.
- Only trap in season.
- Do not disturb denning foxes.
- Support HTC bylaw (proposed) on designated trapping areas.







ARCTIC HARE (Lepus arcticus) / UKALLIQ

Biology

Two to seven young are born in June or July. Adults may weigh 4 - 5 kg. Numbers vary from year to year; groups of hundred to thousands may form. About 15 to 20 years ago there were relatively few Arctic Hare; they are now more common. Most people in the Community include Arctic Hare in their diet. Movements vary noticeably if rain occurs after a snowfall and is likely caused by rabbits searching for available food.



Parks Canada

Key Habitats

Distribution may vary seasonally and annually. Masik Pass area commonly has a high density of hares.

Management Plans/Agreements

Management Plan in place.

Recent Research

Larter NC (1999) Seasonal changes in arctic hare, *Lepus arcticus*, diet composition and differential digestibility. Can. Field-Nat. 113:481-486

RWED (2000) Co-Management Plan for Caribou, Muskox, Arctic Wolves, Snow Geese, and Small Herbivores on Banks Island, 1998/99 to 2002/2003 (DRAFT).

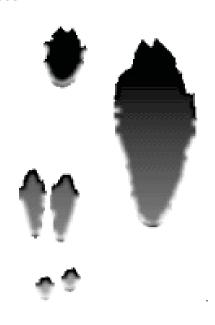
Research Priority

Low priority

Population Goal

Unspecified, adequate supply for community needs at present.

- Identify and protect important habitats from disruptive land uses.
- Management Plan complete



CARIBOU (Rangifer tarandus pearyi) / TUKTU

Caribou on Banks Island (*Rangifer tarandus pearyi*) are classified as Endangered by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC). Caribou on Banks Island are considered to be part of the Banks Island and NW Victoria Island meta population. However, the genetic relationship of caribou on Banks Island to those on the other Arctic Islands is not known. The herd was at its known historical high of 12,098 non-calf animals in 1972. The herd was stable between 1991 and 1994, but declined to 436 ±71 non-calf caribou between July 1994 and July 1998. The cause of that decline is not known, however, possible factors



Environment Canada

include: predation by wolves, adverse climate conditions and migration.

Biology

Calving late May early June, single calf, calves particularly vulnerable in first week of life; breed primarily in October and early November; start to migrate north in April and May. Caribou in good condition can calve every year. Sexual maturity occurs between 2 and 4 years of age. May live to 15 years in the wild. Population has declined steadily over the last 10 years to less than 1,000 animals.

Traditional Use

Food, clothing, crafts

Important Habitat

Winter in valleys and sidehills, sexes separate; spring inland, from Jesse Bay; summer along coast, use hills, valleys, slopes; fall migration moving to Fish lakes area; Sachs, Kellet, Lennie River areas also important.

Management Plans/Agreements

A draft Banks Island Multi-species Management Plan is under development by RWED, on behalf of the WMAC(NWT).

A regional recovery plan is being developed...

Sachs Harbour HTC by-law in place to restrict harvest.

Recent Research

Fraser P., A. Gunn, and B.D. McLean. (1992) Abundance and distribution of peary caribou and muskoxen on Banks Island, N.W.T., June 1991. NWT Ren. Res. Ms. Rep. No. 63. 18pp

Gamberg M. and A.M. Scheuhammer. (1994) Cadmium in caribou and muskoxen from the Canadian Yukon and Northwest Territories. Sci. Tot. Environ. 143:221-234

Larter N.C. and P.L. Clarkson. (1994) Southern Banks Island wolf and caribou survey, March 1993. GNWT Ren. Res. Ms. Rep. No. 79. 20pp

Larter N.C. and D.S. Hik. (submitted) How do Arctic willows (*Salix arctica*) respond to reduced browsing in a High Arctic ecosystem? Oecologia

Larter N.C. and J.A. Nagy. (1994) Ice conditions survey, Banks Island October/November 1993. GNWT Ren. Res. Ms. Rep. No. 77. 18pp

- Larter NC, Nagy JA (1995) Evidence of overwinter growth in Peary caribou (*Rangifer tarandus pearyi*) calves. Can. Field-Nat. 109:446-448
- Larter N.C. and J.A. Nagy. (1996) Caribou collection, Banks Island November 1993-February 1994. GNWT Ren. Res. Ms. Rep. No. 89. 54pp
- Larter N.C. and J.A. Nagy. (1997) Peary caribou, muskoxen, and Banks Island forage: assessing seasonal diet similarities. Rangifer 17:9-16
- Larter N.C. and J.A. Nagy. (1999a) Sex and age classification surveys of Peary caribou on Banks Island, 1982-1998: a review. GNWT Res. Wildl. Econ. Dev. Ms. Rep. No. 114. 31pp
- Larter N.C. and J.A. Nagy. (2000a) Overwinter changes in urea nitrogen:creatinine and cortisol:creatinine ratios in urine from Banks Island Peary caribou. Rangifer Spec. Iss. 12:in press
- Larter N.C. and J.A. Nagy. (2000b) A comparison of heavy metal levels in the kidneys of high arctic and mainland caribou populations in the Northwest Territories of Canada. Sci. Tot. Environ. 246:in press
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- Larter N.C. and J.A. Nagy. (submitted c) Seasonal and annual variability in the quality of a variety of forage plants found on Banks Island in the Canadian High Arctic. Can. J. Bot.
- Larter N.C. and J.A. Nagy. (submitted d) Seasonal and annual variation in snow pack conditions and at feeding sites in the Canadian High Arctic, Banks Island. Arct. Antarct. Alp. Res.
- Latour P. (1985) Population estimates for peary caribou and muskoxen on Banks Island in 1982. NWT Wildl. Serv. File Rep. No. 49. 21pp
- Macdonald C.R., L.L. Ewing, B.T. Elkin, and A.M. Wiewel. (1996) Regional variation in radionuclide concentrations and radiation does in caribou (*Rangifer tarandus*) in the Canadian Arctic; 1992-94. Sci. Total Environ. 182:53-73
- McLean B.D. (1992) Abundance and distribution of caribou on Banks Island, N.W.T. July 1987. NWT Ren. Res. File Rep. No. 95. 28pp
- McLean B.D. and P. Fraser. (1992) Abundance and distribution of peary caribou and muskoxen on Banks Island, N.W.T. June 1989. NWT Ren. Res. File Rep. No. 106. 18pp
- McLean B.D., K. Jingfors, and R. Case. (1986) Abundance and distribution of muskoxen and caribou on Banks Island, July 1985. NWT Ren. Res. File Rep. No. 64. 45pp
- Nagy J.A., N.C. Larter, and V.P. Fraser. (1996) Population demography of Peary caribou and muskox on Banks Island, N.W.T., 1982-1992. Rangifer Spec. Iss. 9:213-222
- Nagy J.A., M. Branigan, W. Forsythe and N.C. Larter. (in prep. b) Changes In The Spatial Distribution of Muskox and Peary Caribou on Banks Island 1982 to 1998: An Assessment Using A Geographic Information System (GIS)
- RWED (2000) Co-Management Plan for Caribou, Muskox, Arctic Wolves, Snow Geese, and Small Herbivores on Banks Island, 1998/99 to 2002/2003 (DRAFT).

Zittlau K, Nagy JA, Larter NC, Strobeck C (in prep.) Genetic relationships of caribou herds in the Inuvialuit Settlement Region, Northwest Territories, and Yukon Territory.

Research Priority

- 1. Caribou-muskox interactions.
- 2. Community wants additional information regarding presence of cysts in meat.
- 3. Interested in wolf-caribou interactions (also collar wolves if study undertaken).
- 4. A population survey is planned for the summer of 2010

Population Status on Banks Island (non-calf)

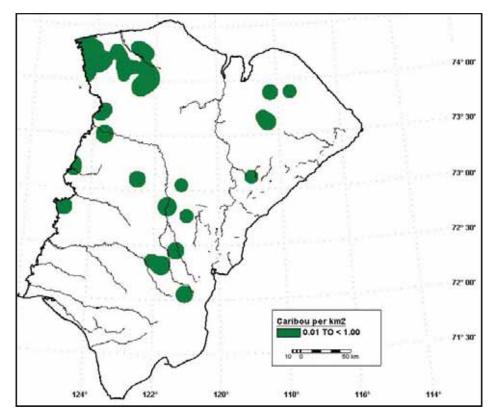
1997-98: 436 1994-95: 709 1992-93: 1,005 1990-91: 879

2009 Sachs Harbour Quota: 72 males

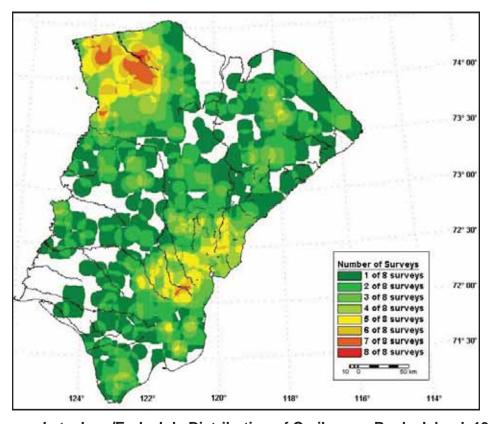
Population Goal

5,500

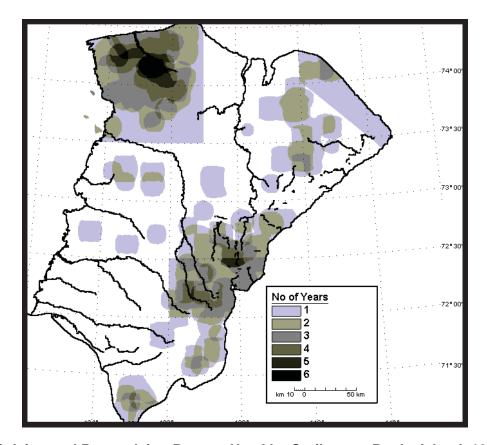
- Do not shoot cows or calves.
- Share your hunt and use all parts.
- Do not harvest more than quota.
- Maintain current quota (36 males only) until population goals reached.
- Selectively harvest muskox from important caribou wintering areas.
- If caribou numbers continue to decline, do not hunt them at all.
- When population reaches 5,500 animals, harvest should be managed to allow caribou population growth.
- Continue to harvest wolves as normal; the Community does not support systematic wolf control or elimination.
- Continue regular population census.
- Identify and protect important habitats from disruptive land uses.
- WMAC (NWT) should encourage early completion of a Caribou Management Plan for Banksland.



Map 8. Known Distribution of Caribou on Banks Island, July 1998



Map 9. Known Late June/Early July Distribution of Caribou on Banks Island, 1972 to 1998



Map 10. Calving and Post-calving Ranges Used by Caribou on Banks Island, 1972 to 1994.

MUSKOX (Ovibos moschatus) / UMINGMAK

Muskox numbers were low on the island during the first part of the century but had increased to several thousand by the 1960's. During the 1970's, 1980's, and 1990's their numbers increased rapidly reaching a high of 64,608 \pm 2,009 non calf animals in July 1994. Between July 1994 and July 1998 the population decreased to about 45,833 \pm 1,938 non calf animals. The current status of the population is not known.



Austin Reed / Canadian Wildlife Service

Biology

Calving generally occurs from about 15 March to 15 June with approximately

90 per cent being born by May 1. Normally produce single calf, approximately 3 weeks before calf can keep up with herd. Breeding throughout August and early September. Females generally sexually mature at 3 years of age, males at 5. May calve annually and can live to at least 24 years of age. Wolves may at times herd muskox on to frozen lakes.

Important Habitat

In winter, muskox feed in valleys and drainages, in May using valleys and particularly sidehills, widespread in summer, in fall (August, September) using tops and sides of hills to loaf, feeding in valleys.

Masik Pass, Nelson River, N.W. of Sachs approximately 10 km (6.2 mi) (near Kellet River), Thomsen River, Muskox River, Egg River, Parker River.

Management Plans/Agreements

A draft Banks Island Multi-Species Management Plan is under development by the RWED, on behalf of the WMAC(NWT).

Recent Research

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Blake JE, McLean BD, Gunn A (1986) Yersiniosis in free-ranging muskoxen on Banks Island, Northwest Territories, Canada. J. Wildl. Dis. 27:527-533

Ferguson RS (1991) Detection and classification of muskox habitat on Banks Island, Northwest Territories, Canada, using landsat thematic mapper data. Arctic 44:66-74

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Research Priority

- 1. Determine how to selectively harvest to ensure muskox available in proximity to Sachs Harbour for subsistence, sport hunting and tourism.
- 2. Muskox movements on Banksland.
- 3. Wolf predation.

Population Status on Banks Island

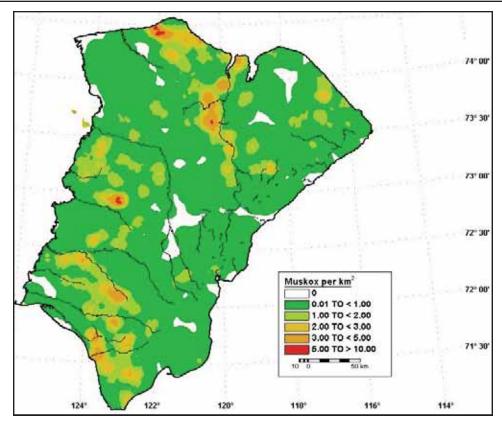
1997-98: 45,833 1994-95: 64,608

1998-99 Quota: 10,000

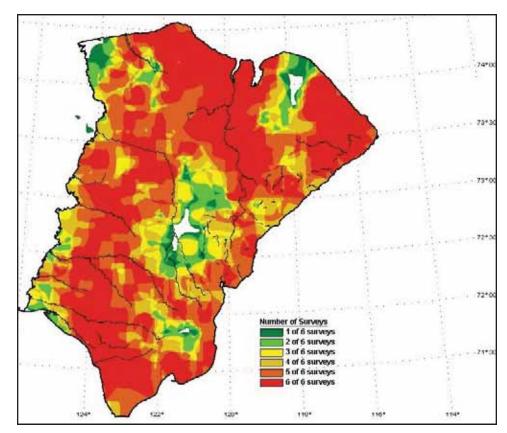
Population Goal

30,000

- Selectively harvest muskox from certain areas on a rotational basis.
- Use all parts of muskox (save heart and liver for dogs if not used for human consumption).
- Maintain population of muskox near Sachs Harbour for subsistence, tourism and trophy hunting.
- When shooting muskox take a neck shot to reduce meat wastage.
- Establish quota to maintain population goal.
- Below a population of 30,000 muskox on Banksland, review harvest strategy and reset quota.
- Use dog teams when guiding sport hunters.
- Continue population census.
- Identify and protect important habitats from disruptive land uses.



Map 11. Early July 1998 Distribution of Muskox on Banks Island



Map 12. Known Late June/Early July Distribution of Muskox on Banks Island, 1985 to 1998

POLAR BEAR (Ursus maritimus) / NANUQ

Biology

Females den from November to late March, early April; breeding late April early May. Average litter size is between 1 and 2 cubs. Females may have young every 3 to 4 years. Females may successfully breed at 4 years of age but most do not breed until 5 years of age. Though bears can live close to 30 years in the wild, most do not survive beyond 20-25 years of age. Ringed seals are eaten more frequently than bearded seals.



Traditional Use

Furbearer, occasionally used for clothing.

Important Habitat

Denning areas along North Slope of Yukon, Herschel Island, Kay Point, shear zone offshore from coast.

Management Plans/Agreements

Inuvialuit-Inupiat Polar Bear Management Agreement in the Southern Beaufort Sea (1988 and 2000) Polar Bear Management Agreement between the Inuvialuit and the Inuit of the western Kitikmeot region (2006)

Management Agreement for Polar Bears in Southern Beaufort Population, Aklavik HTC, Inuvik HTC, Paulatuk HTC, Tuktoyaktuk HTC (1991)

Hunters and Trappers Bylaw written into Regulations under the NWT Wildlife Act.

Draft GNWT- GN Agreement for the management of the shared NB and WM polar bear populations.

All these need to be undated once the boundary between the NB and SB populations is determined.

Recent Research

Mark-recapture studies to provide updated population estimates for the SB and NB sea polar bear populations and information on survival rates and number of cub being born.

Hunter, C.M., H. Caswell, M.C. Runge, E.V. Regehr, S.C. Amstrup, and I. Stirling. 2007. Polar Bears in Southern Beaufort Sea II: Demography and Population Growth in Relation to Sea Ice Conditions. USGS Alaska Science Center, Anchorage, Administrative Report.

Regehr, E.V., S.C. Amstrup, and I. Stirling. 2006. Polar bear population status in the southern Beaufort U.S. Geological Survey Open-File Report 2006-1337

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Rode, K.D., S.C. Amstrup, and E.V. Regehr. 2007. Polar Bears in the Southern Beaufort Sea III: Stature, Mass, and Cub Recruitment in Relationship to Time and Sea Ice Extent Between 1982 and 2006. USGS Alaska Science Center, Anchorage, Administrative Report.

Stirling, I., T.L. McDonald, E.S. Richardson, and E.V. Regehr. 2007. Polar Bear Population Status in the Northern Beaufort Sea. USGS Alaska Science Center, Anchorage, Administrative Report.

Taylor, M.K., J. Laake, H.D. Cluff, M. Ramsay, and F. Messier. 2002. Managing the risk of harvest for the Viscount Melville Sound polar bear population. Ursus 13:185-202.

Collaring of polar bears to look at movements and habitat use

Amstrup, S. C., G. Durner, I. Stirling, N.J. Lunn, and F. Messier. 2000. Movements and distribution of polar bears in the Beaufort Sea. Canadian Journal of Zoology 78:948-966.

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Ferguson, S.H., M.K. Taylor, and F. Messier. 2000a. Influence of sea ice dynamics on habitat selection by polar bears. Ecology 81:761-772.

Ferguson, S.H., M.K. Taylor, A. Rosing-Asvid, E.W. Born, and F. Messier. 2000b. Relationships between denning of polar bears and conditions of sea ice. Journal Mammalogy 81:1118-1127.

Mauritzen, M., A.E. Derocher and Ø. Wiig. 2001. Space-use strategies of female polar bears in a dynamic sea ice habitat. Canadian Journal of Zoology. 79:1704-1713.

Predictions and modelling to look at the future

Derocher A.E., N.J. Lunn, and I. Stirling. 2004. Polar bears in a warming climate. Integrative and Comparative Biology 44:163-176.

Durner, G. M., D.C. Douglas, R.M. Nielson, S.C. Amstrup, T.L. and McDonald. 2007. Predicting the future distribution of polar bears in the polar basin from resource selection functions applied to 21st century general circulation model projections of sea ice. USGS Alaska Science Center, Anchorage, Administrative Report.

Stirling, I. and C.L. Parkinson. 2006. Possible effects of climate warming on selected populations of polar bears (*Ursus maritimus*) in the Canadian Arctic. ARCTIC 59:261-275.

Management

Brower, C.D., A. Carpenter, M.L. Branigan, W. Calvert, T. Evans, A.S. Fischbach, J.A. Nagy, S. Schliebe, I. Stirling. 2002. The polar bear management agreement for the Southern Beaufort Sea: An evaluation of the first ten years of a unique conservation agreement. Arctic 55:362-372.

Research Priority

Moderate: Community interest in movements. Population estimates provide information to try to ensure sustainable harvest. International interest very high.

Population Status

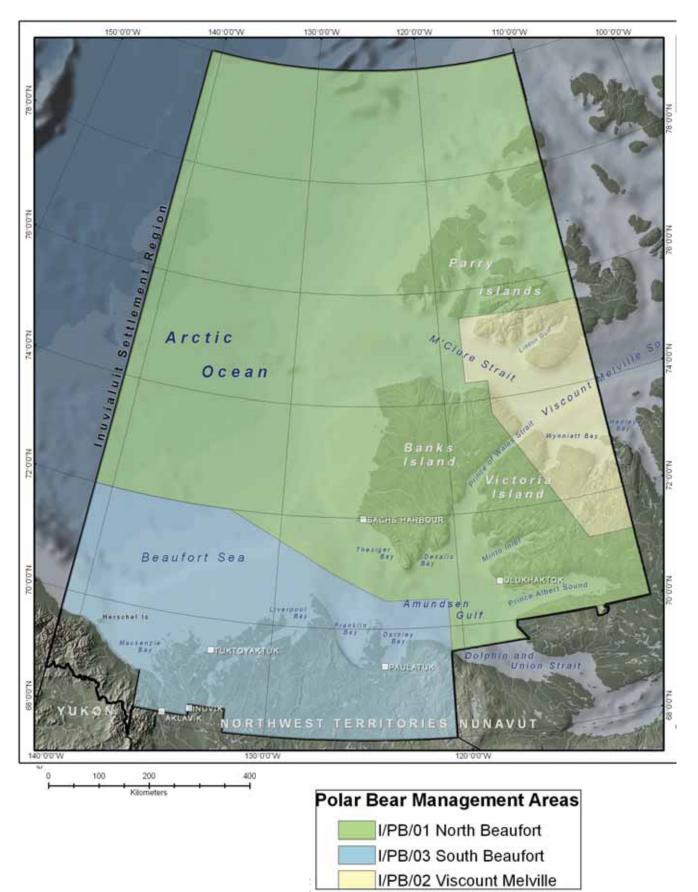
Southern Beaufort: (Likely declining)	1526 (1211 – 1841) 1800	(2006) (1998)
Northern Beaufort: (Stable)	1200 980 (825 – 1135) 867 (726 – 1008) 745 (499 – 991)	(2008) (2006) (1987) (1975)
Viscount Melville Sound (Likely increasing after de	230 ecline)	(1996)



Population Goal

Unspecified. Maintain at level which can produce the maximum sustained yield.

- Follow regulations agreed to in the Management Agreement for Polar Bears in Southern Beaufort Sea Population (1991).
- Do not kill females with cubs and restrict female harvest to no more than 33% of total harvest.
- Do not disturb bears in dens or constructing dens.
- Only hunt from December 1 to May 31. (varies depending on community)
- Collect and report all information requested in Management Agreement after making a kill.
- Identify and protect important habitats from disruptive land uses.



Map 13. Polar Bear Management Zones

WOLF (Canis lupus) / AMARUQ

Arctic wolves (*Canis lupus arctos*) are classified under Appendix 2 of the Convention on International Trade of Endangered Species of Wild Fauna and Flora (CITES) as not currently rare or endangered but could become so if trade is not regulated. The number of arctic wolves on Banks Island is not known. However recent harvest information and observations indicate that there is a healthy population on the island. Fifty wolves were seen during the whole island survey done in July 1998.



T.W. Hall

Biology

Wolves at dens from May to late July, from 2 to 9 pups

have been observed at dens. Average litter size on mainland in ISR is 4.5. Wolves may be sexually mature at about 2 years of age though younger and older ages of maturity are possible. Maximum age of wolves observed in ISR has been 12 years old, however the average age of adult wolves is about 3. There were many wolves in the 1930s and 1940s. Wolves declined due to control programs in 1950s, then began to recover in mid 1970s. Wolves more common with decline in trapping. Wolves tend to follow caribou and muskox movements.

Key Habitats

Big River, Masik Pass, Raddi Lake Hills, Thomsen River, Muskox River, Parker River.

Management Plans/Agreements

A draft Banks Island Multi-species Management Plan is under development by RWED, on behalf of the WMAC(NWT).

Recent Research

Carmichael L, Nagy JA, Larter NC, Strobeck C (in prep.) Population genetics and migration patterns of wolves (*Canis lupus*) in the Canadian North. Molec. Ecol. submitted not yet

Larter NC (1998) Collared lemming abundance, diet, and morphometrics on Banks Island, 1993-1996. GNWT Res. Wildl. Econ. Dev. Ms. Rep. No. 107. 21pp

Larter NC, Clarkson PL (1994) Southern Banks Island wolf and caribou survey, March 1993. GNWT Ren. Res. Ms. Rep. No. 79. 20pp

Nagy JA, Larter NC (2000) Status and diet of arctic wolves (*Canis lupus arctos*) in the Inuvialuit Settlement Region, Arctic Canada. *Abstract* Wolf 2000 Conference, Duluth, MN.

RWED (2000) Co-Management Plan for Caribou, Muskox, Arctic Wolves, Snow Geese, and Small Herbivores on Banks Island, 1998/99 to 2002/2003 (DRAFT).

Research Priority

Moderate/high.

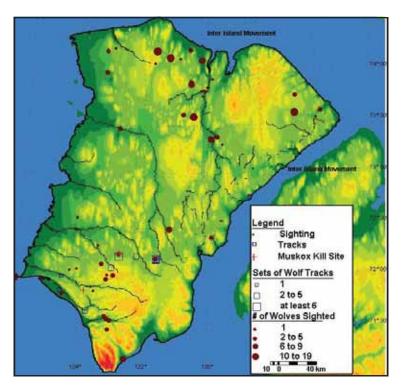
- 1. Population status.
- 2. Movement and predation study done in conjunction with any radio telemetry study of muskox or caribou.

Population Goal

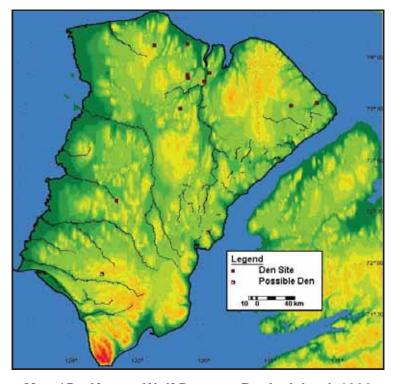
Unspecified.



- Do not harvest in summer when fur is poor.
- Hunt by traditional means; do not use aircraft or poison to control wolves.
- If guiding tourists, do not hunt wolves.
- Identify and protect important habitats from disruptive land uses.



Map 14. Sightings of Wolves on Banks Island, 1985-86 to 1997-98



Map 15. Known Wolf Dens on Banks Island, 1998

BELUGA WHALE (Delphinapterus leucas) / QILALUGAQ

Biology

The beluga is an odontocete, or toothed whale, having up to 40 teeth that are similar in shape and size. They are dark grey and about 1.5 m (5 ft.) in length when they are born. Calving occurs in spring. With each passing year, the skin lightens in colour, by the time a beluga is about 9 years of age, it is white in colour. Adult males are larger than adult females. Belugas feed mainly on squid and fish. They themselves are preyed upon by polar bears, killer whales, and to a limited extent walruses. They are harvested annually by Inuvialuit between July and August.



They are a very vocal species, having earned the name of "the sea canary". They make sounds which

are used for echolocation, that is to help them find their way and their food, as well as sounds to communicate, which are those which can be heard by other whales. They have a habit unique among whales, and that is that they concentrate in estuaries during the summer. This has made them well accessible to hunters and well known to the general public.

Traditional Use

Highly valued food resource.

Important Habitat

Jesse Bay, DeSalis Bay; Central Amundsen Gulf, south of Nelson Head; Prince of Wales Strait; M'Clure Strait.

Calving in Mackenzie Bay and Shallow Bay.

Management Plans/Agreements

Inuvialuit Inupiat Beaufort Sea Beluga Whale Agreement (2000) Beaufort Sea Beluga Management Plan (1998) HTC Beluga Bylaws

Recent Research

Beluga Monitoring Program:

- standardized in 1977 in Mackenzie Delta
- Paulatuk added in 1989
- FJMC took over program in 1987
- Continues to present day.
- Samples and enumerates the catch
- Conducted by the HTC representatives and coordinated by the FJMC
- Constitutes the largest and longest database of beluga harvest monitoring in the Arctic.

Aerial Surveys:

1970s and 1980s by oil and gas industry contractors

DNA.

- Beaufort Sea beluga constitute one of the largest stocks of beluga in Canada, and one of four that overwinters in the Bering Sea.
- Together these four stocks make up the Bering Sea population.

• Genetic studies have shown the stocks are discreet, with the exception of some wanderings by the large males.

Satellite Telemetry:

- A total of 27 beluga whales were tagged with satellite transmitters in the Mackenzie Delta in 1993 (n=4), 1995 (n=16), 1997 (n=7)
- In two of the study years, when the whales were tagged earlier in the season, the largest males travelled to Viscount Melville Sound where they spent 2-3 weeks diving/feeding, before undertaking their migration back to the Bering Sea
- Females and calves tended to swim counter-clockwise circuits in Amundsen Gulf.

Research Priority

High - Community interest in the following.

- 1. Improve collection and analysis of information obtained from harvest, process and summarize all existing data, compare data with other data sets, record traditional knowledge.
- 2. Regular census including survey of summering range.
- 3. Inshore and Offshore Movement Study.

Population Status

- Index of 1992 stock size 19,629 (95% Confidence Interval: 15,134 24,125) (Harwood et al. 1996)
- growth rate 2.5%
- · stock is stable or increasing
- present harvests are less than 1% of conservative estimate of stock size

Population Goal

Unspecified, adequate numbers at present.

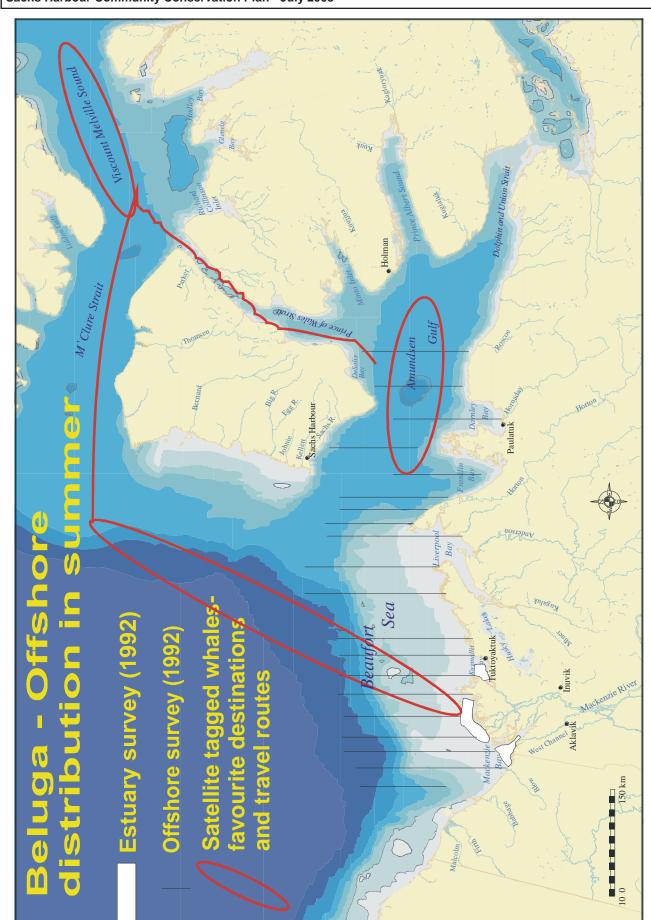
- Support the Beaufort Sea Beluga Management Plan.
- Follow HTC Beluga Bylaw.
- Identify and protect important habitats from disruptive land uses.

SACHS HARBOUR HUNTERS & TRAPPERS COMMITTEE BELUGA HUNTING BYLAWS

- 1. Each boat will have the following equipment:
 - a) A rifle of not less than .243 calibre:
 - b) Two harpoons equipped with line and float, or one such harpoon and a "seal hook";
 - c) One grapple hook attached to sufficient length of line to reach the ocean bottom in the area being hunted;
 - d) One float marker with enough line to reach the ocean bottom in the area being hunted, and equipped with an anchor;
 - e) A towing line.
- 2. Each hunter must attempt to retrieve sunken or wounded whales before hunting for another whale.
- 3. No person shall, at any time, take more whales on a hunt than can adequately be taken care of considering limitations of the boat, weather, the towing distance, and the number of people in the camp available for processing.
- 4. Beluga hunters must provide Beluga Harvest Monitors with the requested information and reasonable access to harvested whales for measurements and samples.
- 5. There shall be no hunting in "No Hunting Zones" if applicable.
- 6. There shall be no interference during the hunt by tourists or operators.

Beluga Hunting Guidelines

- 1. A proven method by some hunters has reduced loss rates considerably, by harpooning first. Whales should be harpooned before shooting.
- 2. It would be preferable that no person should hunt alone.
- 3. Each boat should have at least one experienced hunter.
- 4. All areas around whale kills should be cleaned up after processing.
- 5. These Guidelines and Bylaws may be changed by the Sachs Harbour HTC as necessary.

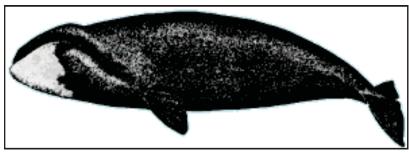


Map 16. Beluga - Offshore Distribution in Summer

BOWHEAD WHALE (Balaena mysticetus) / AQVIQ (or) ARVIA

Biology

The bowhead whale is a baleen whale, black in colour except for white markings on chin and tail that usually come with age. Bowheads may reach a length of up to 20 m (65 ft.), with 12-15 m (40-50 ft) being the usual size. A small adult weighs 13,608 kg (30,000 lb). Blubber can be up to 51 cm (20 in.) thick. They reach adulthood at about 20 years, and have one calf every 3 to 5 years.



They feed lower in the food chain than the beluga, choosing areas where zooplankton is concentrated. They usually travel singly or in small groups. They make vocalizations which are a lower frequency than beluga.

The Western Arctic population of bowhead whales is one of three remaining in Canada, and constitutes more than 90% of the world's remaining bowhead whales.

The Alaskan Inupiat harvest about 60 whales per year. Aklavik took one bowhead in 1991, and another in 1996.

Important Habitat

Northern Amundsen Gulf, east of Nelson Head, King Point, Shingle Point, Mackenzie Bay, Herschel Island, West Whitefish Station.

Management Plans/Agreements

Bowhead Whale Management Strategy: DFO, FJMC, Aklavik HTC (Draft 1991).

Recent Research

In the 1980s, extensive, multi-year programs were undertaken to monitor distribution of bowheads in both the Canadian and Alaskan Beaufort Sea areas, to study the effects of industry on bowheads, and photogrammetry to identify individuals.

Currently, if a bowhead whale is harvested, the community harvest monitor takes the measurements and samples, with a biologist from DFO.

FJMC Mitochondrial DNA - Stock identity study, 1992 - ongoing.

U.S. Minerals Management Branch - Acoustical playback study scheduled for 1993.

U.S. Minerals Management Branch - Satellite tagging research 1992 - ongoing.

Research Priority

High: Community interested in knowing more about species biology.

Population Status

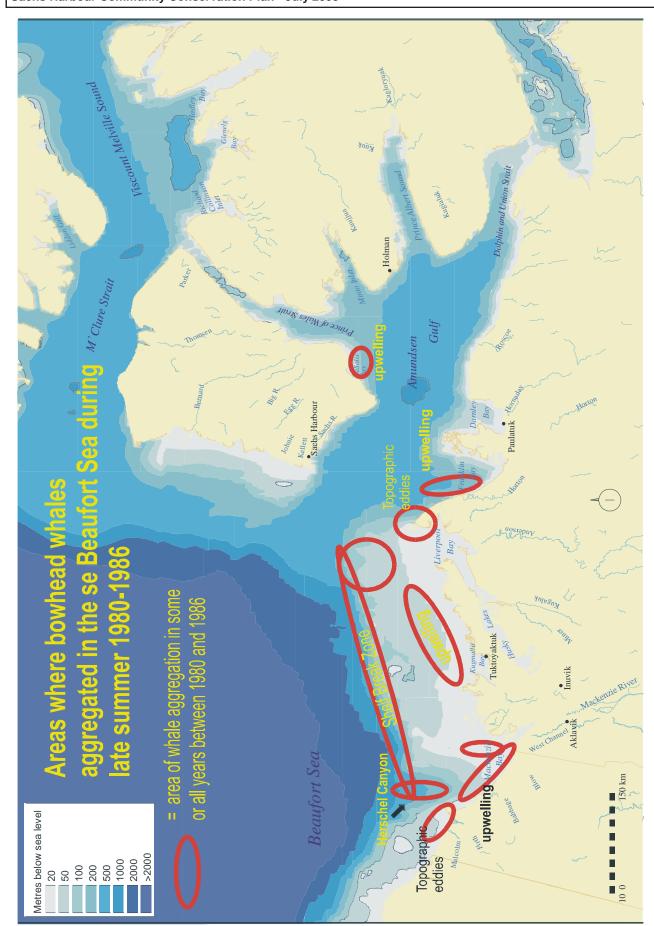
Approximately 8,200 and increasing at a rate of 3% annually.

Population Goal

Maintain thriving population for subsistence harvest. Unspecified. Currently being managed for population recovery.

Conservation Measures

Identify and protect important habitats from disruptive uses.



Map 17. Summer Bowhead Whale Habitat

SEALS

RINGED SEAL (Pusa hispida) / NATCHIQ and BEARDED SEAL (Erignathus barbatus) / UGRUK

Biology

Ringed seals and bearded seals are important components of the marine ecosystem and serve as the primary food source for polar bears.

Ringed Seals

Ringed seals are the smallest of all pinnipeds (seals, sea lions, and walruses) with adults in the Beaufort Sea rarely



exceeding 1.5 m (5 ft.) in length and 68 kg (150 lb) in weight. Ringed Seals weigh the most in the winter and early spring when they have a thick layer of blubber under their skin. The blubber serves as insulation and as an energy source during the breeding and pupping season. The weight of ringed seals declines with the decrease in feeding during the reproductive and moulting season.

The colouration of ringed seals is guite variable, but the basic pattern is a grey back with black spots and a light belly. The seal gets its name from the black spots ringed with light marks.

Ringed seals eat a variety of invertebrates and fish. The particular species eaten depends on availability, depth of water, and distance from shore. In the Beaufort Sea, the important food species are arctic cod, saffron cod, shrimps and other crustaceans.

The ringed seal is an important element of the arctic marine ecosystem, both as the main prey of polar bears and a major consumer of marine fish and invertebrates. It continues to be an important species in the subsistence harvests and economy of Holman, as well as in Sachs Harbour, Tuktovaktuk and Paulatuk. Inuvialuit harvest seals for their own food as well as for their dogs. Seal harvests in the ISR between 1988-1996 averaged 1,050 per year, with more than 70% of this coming Holman. Present day harvests are 20-30% of what they were years ago.

Bearded Seals

The bearded seal is the largest true seal normally found in the Beaufort Sea. Bearded seals are heaviest during winter and early spring when they may attain a weight of more than 340 kg (750 lb). From June through September adults usually weigh from 216-239 kg (475-525 lb). This seasonal loss of weight results from decreased feeding during spring and summer and is most obvious in changes of the thick layer of blubber under the skin. Measured from nose to tip of tail (not including hind flippers), adults average about 2.4 m (93 in.). Colour varies from a tawny-brown or silver-grey to dark brown.

Bearded seals have neither spots nor bands. They have comparatively long whiskers, rounded foreflippers of which the middle one of the five digits is longest, relatively small eyes, and four mammary teats rather than two as in the ringed seal.

One pup is usually born during late April or early May. The average weight of pups at birth is around 34 kg (75 lb), and average length is about 1.3 m (52 in.). By the end of a brief nursing period lasting from 12 to 18 days, pups increase their weight almost three times, to around 86 kg (190 lb).

Bearded seals eat a wide variety of invertebrates and some fishes found in and on the rich bottom of the shallow Bering and Chukchi seas. The main food items are crabs, shrimp, clams and snails.

Traditional Use

Clothing (boots, mittens), some used for food. Traditionally used for kayak lining, rope, and traces for dog harnesses. Seal oil has traditionally been used (and continues to be occasionally used) as fuel for heat and light.

Important Habitat

Sea Otter Harbour and north to Storkerson Bay, De Salis Bay, Jesse Bay, Prince of Wales Strait, south Banks Island offshore.

Management Plans/Agreements

None

Recent Research

Ringed Seal:

Sachs Harbour: seal monitoring programs (reproduction and condition) were conducted from 1987-1989 and in 1992.

Paulatuk: seal monitoring program was conducted from 1993-1994. May be a site of future satellite tagging project with ringed seals (e.g. 2001).

Holman: have been monitoring reproduction and condition of seals each year from 1992-1999, and in Minto Inlet for five years in that time period. Satellite tagging program for ringed seals started in Holman in 1999, with plans to continue in 2000.

Bearded Seal:

None at the present time. Vocalizations were studied in the 1970s near Ramsay Island, near Holman.

Research Priority

Moderate priority: interest in biology and in monitoring health and presence of contaminants.

Population Status

Ringed seals generally more abundant than bearded seals.

Population Goal

Adequate supply at present.

Conservation Measures

- Share hunt among elders.
- Identify and protect important habitats from disruptive land uses.
- Only harvest what is needed.

OTHER MAMMALS

In addition to the species of mammals listed, Banksland also supports populations of Greenland collared lemming, brown lemming, and ermine. Wolverine appear in low numbers. Grizzly bears occasionally arrive on Banksland from the mainland though no breeding populations are believed to occur. Walrus may occasionally show up in coastal waters but are also very uncommon. No breeding populations exist in the area. Observations of rare or unusual species should be reported to the GNWT and CWS.

DUCKS / QAUGAIT

King Eider (Somateria spectabilis) / Quingalivik Common Eider (Somateria mollissima) / Quingalik Oldsquaw (Clangula hyemalis) / Ahaliq Pintail (Anas acuta) / Kurugak

Biology

Arrival and departure of ducks closely tied to breakup and freeze up. Occasional mass die offs of eiders may occur when breakup delayed.

Eider (King and Common)

Winter in northern waters generally not far from breeding areas. Rarely as far south as B.C. and Washington. Leave wintering areas in late April, arrive on breeding grounds early June. Most nests close to sea, often on small islands also near tundra ponds distant from coast. Common eider and king eider will occasionally nest together. Common eider clutch size ranges from 1 to 14 eggs, average about 4 to 6. King eider clutch size ranges from 2 to 6 eggs,



Parks Canada

average about 5. Common eiders incubate eggs about 26-28 days, king eider about 23-24 days. Common eider have been observed diving to about 6 m (20 ft.) depth to feed while there is a record of a king eider diving about 55 m (181 ft.). Both prefer aquatic organisms for food, e.g. mussels, crabs, aquatic insect larvae and some aquatic plants. Begin fall migration as early as July (e.g. male king eider)

and runs through to late fall (immature birds).

Old Squaw

Nest in greater numbers in Arctic than any other duck. Winter along west coast as far as California. Leave wintering areas in mid-March to mid-April, arrive on breeding grounds late May, early June. Prefer to nest on small islands or on upland areas near tundra ponds. May nest up to 200 m (656 ft.) or more from water but most are quite close, average is less than 10 m (33 ft.). Clutch size may range from 2 to 11 eggs, average about 7. Incubate eggs for about 26 days. Begin fall migration late August or early September.

Pintail

Largest number of breeding pintails in the Canadian Arctic occurs in the Mackenzie Delta, large numbers also occur at Anderson River Delta. Winter in Texas, Mississippi Delta, Mexico, California. Leave wintering grounds in late January, early February through March, arrive in delta mid-May. Prefer open areas with low vegetation to nest. May nest up to 1.6 km (1 mi.) from water but average about 40 m (131 ft.). Clutch size ranges from 3-14 eggs, average about 8. Incubate eggs 22 to 23 days. All eggs tend to hatch within about 8 hours. Eat shoreline vegetation, some aquatic plants, cereal grains (in south) and to some extent aquatic invertebrates. Fall migration begins late August.

Important Habitat

King Eider: s.w. Banks Island, Tuktoyaktuk Peninsula, Cape Bathurst

Common Eider: s. Banks Island, n.w. Victoria Island

Oldsquaw: Banks Island, Victoria Island (distribution in the ISR is not well-documented)

Northern Pintail: tundra areas

Management Plans/Agreements

Migratory Birds Convention Act, 1994.

North American Waterfowl Management Plan (1986) (NAWMP).

Recent Research

Standardized annual breeding pair survey conducted jointly by CWS and US Fish and Wildlife.

Migration and harvest of King Eiders, CWS

Research Priority

High: Local interest in biology, also concern here and elsewhere on impact of changing water levels and water quality.

King Eider

- Monitor King Eider numbers as part of multi-species surveys to determine population trends in the ISR.
- Determine the breeding range limits of the western arctic King Eider population using stable isotope analysis.
- Document importance of staging areas in the southeastern Beaufort Sea of King Eiders during moult migration (aerial surveys).
- Document the migration routes and the distribution of King Eiders in moulting and wintering areas in the Chukchi and Bering Sea (satellite telemetry).

Common Eider

- Document the migration routes and the distribution of Common Eiders in moulting and wintering areas in the Chukchi and Bering Seas.
- Determine the reproductive success and annual survival of Common Eiders, including factors affecting productivity and survival.
- Locate critical habitat for brood-rearing Common Eiders.

All Species of Waterfowl

• Analyze, summarize and map harvest study data to determine the total harvest, spring staging areas, and the biological and management significance of these data.

Population Status

<u>King Eider</u> 371,000 (1996)

802,000 (1976)

Pacific Common Eider 73,000 (1996)

153,000 (1976)

Oldsquaw 406,751 (1993-1998 average) (Western Canadian Arctic and Alaska)

Northern Pintail 2.9 million (North America)

Continental Goal: 5.6 million

Population Trends
King Eider: decreasing
Common Eider: decreasing
Oldsquaw: decreasing
Pintails: decreasing

Population Goal

Maintain thriving population for subsistence harvest.

NAWMP (1986) has a combined goal of 60 million ducks for 29 species of duck in North America. See above continental goals, based on NAWMP (1986).

- Do not disturb nesting birds.
- Harvest only what is needed.
- Identify and protect important habitats, including wintering areas, from disruptive land uses.

GEESE AND TUNDRA SWAN

Snow Goose (Chen caerulescens) / Kanguq Brant (Branta bernicla) / Niglignaq Tundra swan (Cygnus columbianus) / Qugruk

Biology

Timing of goose, brant and swan arrival and departure is closely associated with availability of open water and freeze up.

Snow Geese - Winter California and Mexico. Arrive mid-May. Lay 2-10 eggs (average 6) first week of June. Incubate approximately 22-33 days, off nest first week of July. Feed on terrestrial and aquatic vegetation. Leave early September. The Western Arctic Population of Lesser Snow Geese (*Anser caerulescens caerulescens*) consists of four major colonies, with 98% of the Snow Geese breeding at the Egg River colony on Banks Island.

Brant - Winter along Pacific Coast Mexico to B.C. Arrive late May, early June. Nest close to water. Lay 1-10 eggs, average 3-5 eggs, approximately second week of June. Incubate eggs about 24 days, off nest late July. Some local observation that brant will nest near snowy owls to avoid fox predation.



W. Lynch / Parks Canada

Swans - Winter east coast U.S. Arrive mid-May. Lay 2-6 eggs (average 5) in June. Remain on nest until mid-August and remain in vicinity until fall migration. Prefer marshy areas, aquatic plants. Fall migration in September.

Traditional Use

Very important food source in spring, down from waterfowl also traditionally used in clothing, pillows and blankets.

Important Habitat

Lesser Snow Goose: Egg River, Kendall Island, Anderson River Delta, Thomsen River

Brant: Anderson River delta, Tuktoyaktuk Peninsula, Smoke/Moose Delta, Campbell area

Tundra Swan: Mackenzie Delta, Yukon North Slope, mainland coast, southern Banks Island

Management Plans/Agreements

Migratory Birds Conventions Act, 1994.

North American Waterfowl Management Plan (1986) (NAWMP).

Arctic Goose Joint Venture (part of NAWMP).

Co-management Plan for Caribou, Muskox, Arctic Wolves, Snow Geese & Small Herbivores on Banks Island (Draft - 2000)

Draft Pacific Coast Brant Management Plan (1991).

Eastern Tundra Swan Management Plan

Recent Research

- Population of Brant on the Mainland of the ISR, CWS
- Productivity of Lesser Snow Geese, Banks Island, CWS
- Monitoring of Snow Goose Habitat on Banks Island, CWS
- Impact of Harvest on Snow Goose Populations in the ISR, CWS

Research Priority

High - The community is interested in knowing more about the biology and ecology of these species. Improving census methods, and identifying important habitat.

Snow Goose

- Habitat studies to determine impact of snow geese on the lowland habitat of Banks Island, and to develop a long-term goal for the population.
- Evaluate impacts of increased spring harvest on the different colonies
- Delineate areas where Banks Island geese can be selectively harvested by the mainland communities without impacting the small colonies
- Monitor continuing eastward shift of migrating and wintering geese.
- Carry out air photo surveys at 5-year intervals to document population trends at the three Western Arctic colonies.

Brant

- Complete analysis and write-up of recent studies of the distribution, abundance, survival rates and productivity of brant in the ISR.
- Evaluate the impact of grizzly bear predation and other factors on the colonies of brant and snow geese at Anderson River.

Population Status

<u>Lesser Snow Goose</u> 486,000 (1995) (ISR)

169,600 (1976) (ISR)

Western Arctic Goal 200,000 breeding population

Brant 137,400 (1993 winter average) (North America)

Continental Goal 185,000

Tundra Swan - E. Pop'n 84,000 (1993-98) (North America)

Continental Goal 80,000

Tundra Swan - W. Pop'n 81,000 (1993-98) (North America)

Continental Goal 60,000

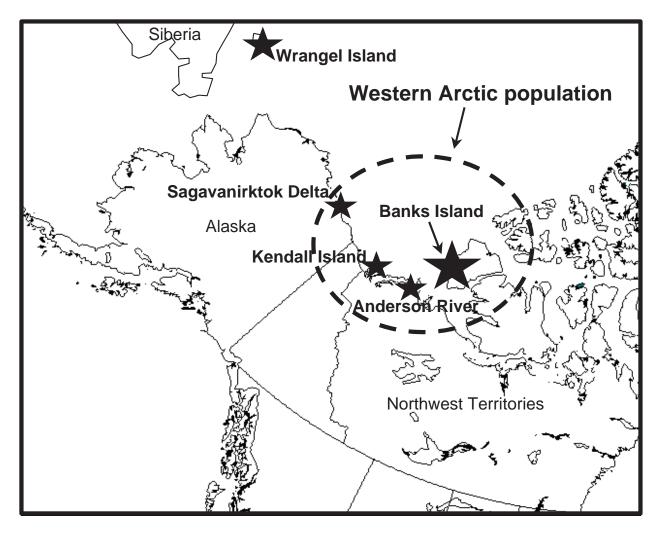
Population Trends

Lesser Snow Geese Increasing
Brant Stable
Swans Increasing

Population Goal

See continental goals above, based on the North American Waterfowl Management Plan, 1986 (NAWMP).

- Identify and protect important habitats, including wintering areas and key resting sites, from disruptive land uses.
- Do not harvest more than is needed.
- Support North American Waterfowl Management Plan (1986) and Arctic Goose Joint Venture.
- Support the "Principles for the Conservation of Migratory Birds in the Inuvialuit Settlement Region" WMAC (NWT).



Map 18. Locations of Lesser Snow Goose colonies in the Western Arctic and Wrangel Island

LOONS

Yellow billed or King Loon (Gavia adamsii) / Qaqauq Pacific Loon (Gavia pacifica) / Maliri Red-throated Loon (Gavia stellata) / Suglia

Biology

Arrive in May, 1 - 2 eggs laid in June, migrate south in September. Feed on small fish. Arctic and red-throated arrive mid-June, leave late August early September. Different loons will use same habitats.

Important Habitat

Inland lakes.



Parks Canada

Management Plans/Agreements

Migratory Bird Convention Act, 1994

Recent Research

Barr, J.F. 1997. Status report on the yellow-billed loon, Gavia adamsii, in Canada. COSEWIC.

Dickson, D.L., 1992. The Red-throated loon as an indicator of environmental quality. CWS. Occasional Paper No. 73.

Dickson, D.L, 1993. Breeding biology of red-throated loons in the Canadian Beaufort Sea Region. Vol. 46, No. 1.

Vogel, H. 1997. COSEWIC status report on the common loon (Gavia immer) in Canada. COSEWIC.

Research Priority

Moderate: Community interested in more information on biology.

Population Status

Local indigenous observation suggests that Yellow-billed loons used to be abundant but now are less so.

Population Goal

Thriving population.

- Do not disturb nesting birds.
- Identify and protect important habitats from disruptive land uses.

PTARMIGAN (Lagopus spp.) / QAIQ

Rock Ptarmigan (Lagopus mutus) Willow Ptarmigan (Lagopus lagopus)

Biology

Breed in early May, lay eggs in June. Willow ptarmigan lay 5-10 eggs, rock ptarmigan lay 6-15 eggs.

Traditional Use

Ptarmigan are a well-liked food source within the community.

Important Habitat

Willow ptarmigan use willow sorb, muskeg areas, sheltered valleys.



RWFD

Management Plans/Agreements

None.

Recent Research

Study of contaminant levels in willow ptarmigan from Anderson River Delta and Kittigaaryuit Bay area conducted in 1989. GNWT Department of Renewable Resources, Yellowknife. Report in progress. Numerous YTG surveys in northern Yukon for past twenty years.

Research Priority

Low.

Population Status

Varies from year to year.

Population Goal

Unspecified though community would be interested in having more around.

Conservation Measures

• Identify and protect important habitats from disruptive land uses.

SANDHILL CRANE (Grus canadensis) / TATIGAQ

Biology

Winters in southern U.S. to Mexico. Arrive end of April or early May before snow geese. Nest is grass mound in marsh or wet meadow. Lay 2 eggs around middle of May, hatching in mid-June. Feed on insects, lemmings, aquatic plants, grains, amphibians. Fall migration late August early September.

Important Habitat

Foothills, upland areas, Coastal Areas

Management Plans/Agreements

Migratory Bird Convention Act, 1994

Recent Research

Austin, J. 1997. Delineation of Sandhill Crane subspecies and their distributions. Canadian Wildlife Service.



Parks Canada

Reed, J.R. 1988. Arctic adaptations in the breeding biology of Sandhill Cranes, *Grus canadensis*, on Banks Island, Northwest Territories. Canadian Wildlife Service.

Research Priority

Unspecified.

Population Status

Appear to be increasing.

Population Goal

Unspecified.

- Do not disturb nesting birds.
- Identify and protect important habitats from disruptive land uses.

PEREGRINE FALCON (Falco peregrinus anatum) / KIRGAVIK

GYRFALCON (Falco rusticolus)

ROUGH LEGGED HAWK (Buteo lagopus) / QILGIQ

Biology

Peregrine Falcon: May nest in cliffs. Lay 2-4 eggs. Feed on small to medium sized birds.

Gyrfalcon: Nest in cliffs and occasionally trees, lay 3-4 eggs. Feed on ground squirrels, ptarmigan, and occasionally hare. Populations cycle with prey availability.

Rough-legged Hawk: Nest on cliffs. Lay 2-5 eggs. Feed on lemmings, ground squirrels.

Important Habitat

Coastal areas with suitable cliff nesting habitat.

Management Plans/Agreements

GNWT and Yukon Birds of Prey Regulations.



RWFD

Convention on International Trade in Endangered Species (CITES); Peregrine Falcon - Appendix 1.

Recent Research

Canadian Peregrine Falcon and Raptor Survey, Aulavik National Park (2000).

Bromley, R.G. 1987. Updated status report on the gyrfalcon, Falco rusticolus, in Canada. COSEWIC.

Johnstone, R.M. 1997. Update of status report on the American peregrine falcon, *Falco peregrinus anatum*, in Canada. COSEWIC.

Poole, K. and R. Bromley, 1985. Aspects of the ecology of the gyrfalcon in the Central Arctic, Northwest Territories. GNWT, Department of Renewable Resources File Report No. 52.

Research Priority

Moderate - Interest in ecological relationships, role in food chain.

Population Status

Population Goal

Unspecified, adequate numbers at present.

- Do not export.
- Do not harass or disturb nesting birds.
- Identify and protect important habitats from disruptive land uses.

SNOWY OWL (Nyctea scandiaca) / UKPIK

Biology

Most migrate to region in spring, however, a few may overwinter. Arrive in April, nesting mid to late May. Prefer to nest on elevated ground. Off nest in late August. Lay 5-7 eggs, some reports of 12, incubation 32 to 33 days. May feed on lemmings, birds, fishes. Variable numbers year to year. Appear to have ecological association with brant. Usually low numbers.

Traditional Use

Have been used as food in past.

Important Habitat

Coastal Areas.

Management Plans/Agreements

None

Recent Research

Kirk, D.A. 1995. Status report on the snowy owl, Nyctea scandiaca, in Canada. COSEWIC.

Research Priority

Low.

Population Status

Appear to be decreasing, though some sense they were abundant in 1991. Population appear to be high in some years and low in others.

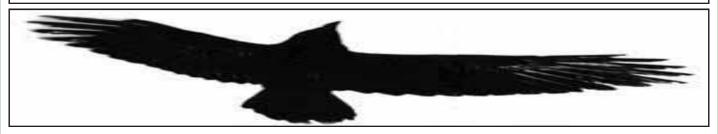
Population Goal

Unspecified. Adequate numbers for community needs.

- Hunt only when needed.
- Identify and protect important habitats from disruptive land uses.



T.W. Hall / Parks Canada



BIRD SPECIES LIST

A number of other birds may visit and nest on Banksland. Some may only rarely occur and do not routinely breed on the island. A list of these birds, including those already mentioned, is presented below. It is recognized that these species may be important components of the ecosystem on which other species depend. These species are also of potential economic value as they represent an important focal point and attraction for tourists. As with other species, protection should be given to important habitats or ecological relationships when these become known.

A list of birds which may occur in the area is presented below. These species are important components of the ecosystem, contribute to the quality of life in the area and are an attraction for tourists. Many of these species migrate to wintering areas outside of the planning area and Inuvialuit Settlement Region. Their conservation depends on cooperative work with people outside the region. It has been said that when a hunter sees a raven in the distance making noise and swooping down low, that game is nearby.

Bird Species List

American Golden Plover

Arctic Tern

Baird's Sandpiper

Black-bellied Plover

Brant

Brownheaded Cowbird

Buff-breasted Sandpiper

Canada Goose

Common Eider

Glaucous Gull

Green-winged teal

Gyrfalcon

Horned Lark

Iceland Gull

King Eider

Lapland Longspur

Long-tailed Jaeger

Northern Fulmar

Northern Hawk Owl

Northern Pintail

Oldsquaw

Pacific Loon

Parasitic Jaeger

Pectoral Sandpiper

Peregrine Falcon Pomarine Jaeger

Raven

Red Knot

Red Phalarope

Red-throated Loon

Red-winged Blackbird

Rock Ptarmigan

Ross' Goose

Ross' Gull

Rough-legged Hawk

Ruddy Turnstone

Sabine's Gull

Sanderling

Sandhill Crane

Scaup

Scoter

Semi-palmated Plover

Semi-palmated Sandpiper

Short-eared Owl

Snow Bunting

Snow Goose

Snowy Owl

Tundra Swan

Water Pipit

Whimbrel

White-fronted Goose

White-rumped Sandpiper

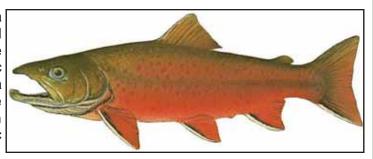
Willow Ptarmigan

Yellow-billed Loon

ARCTIC CHARR (Salvelinus alpinus) / QALUKPIK

Biology

The Arctic charr is present as both a sea-run and a landlocked form. There are some external characteristics which can be used to differentiate between Arctic charr and Dolly Varden. Arctic charr generally have a shorter head and snout, a trait particularly evident in spawning males. The tail of an arctic charr has a slightly deeper fork than that of a Dolly Varden, and the base of the arctic charr's tail is narrower.



Spawning occurs in freshwater during late September and early October, at about the same time that the winter ice forms. At spawning time the adults take on their characteristic spawning features and colours. Spawners are easily recognized because they change from silver to orange, red, and often to deep vermilion. Also, the leading edges of the lower fins turn white, and males develop a protruding hook called a 'kype' on their lower jaw.

Adult charr do not spawn each year, taking one or two resting years in between spawning years. They first start to make trips to sea at about age 3-5, depending on the system. Adult charr are thought to spawn every second year, although this is likely variable depending on individual condition, environmental condition and age of the fish. Arctic charr are carnivorous, feeding mainly on small fishes and benthic organisms.

Traditional Use

Very important food source.

Important Habitat

Sachs River, Masik River, Kellet River, Thomsen River, Fish Lake, Raddi Lake, Swan Lake, De Salis River, Bernard River, Rufus River, Atitok River.

Management Plans/Agreements

None.

Recent Research

- Preliminary assessment for charr done at Jesse Harbour in 1989.
- Genetics work in 1994.

Research Priority

Moderate to high. General interest in knowing more about fishing resources of Banksland.

Population Status

Unavailable.

Population Goal

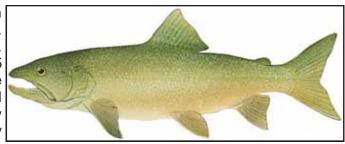
Unspecified. Maintain adequate numbers to sustain (current/ increased) harvest.

- · Release smaller fish.
- Take only what you need.
- Suggested mesh size at 9 12.7 cm (3.5 5 in.).
- Use 11.4 cm (4.5 in.) mesh size on gill nets.
- Identify and protect important habitats from disruptive land uses.

LAKE TROUT (Salvelinus namaycush) / IQALUAKPAK

Biology

Spawn in late August early September, rarely spawn in rivers; temperature and light influence spawning. May return to same spawning bed year after year. May move long distances (e.g. 100+ km), 4 - 5 months for egg incubation. May not sexually mature until 13+ years old. Predatory on small fish though will eat aquatic insects as well. They grow very slowly and are sensitive to environmental change. They may not spawn every year.



Key Habitats

Granny Lake, Middle Lake, Fish Lake, Kuptana Lake, Capron Lake, Sik Sik Lake and others. Most lakes have lake trout.

Management Plans/Agreements

None

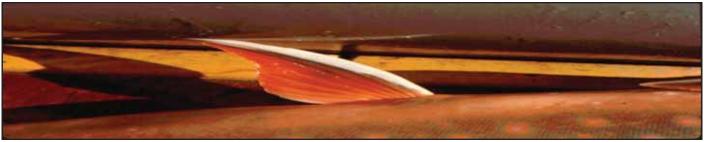
Research Priority

Moderate to high. Community would like more information on fishing resources as well as appropriate mesh size.

Population Goal

Unspecified. Adequate supplies or Community needs.

- Release smaller fish.
- Take only what you need.
- No commercial fishing in lakes.
- Identify and protect important habitats from disruptive land uses.



FJMC / DFO

FISH SPECIES LIST

A variety of species of fish occur within the freshwater and marine environments of Banksland. Most lakes and rivers on Banksland support fish populations. A partial list of these including those already mentioned is presented below. It is recognized that these species may be important components of the food chain on which other species (e.g. arctic charr, seals, polar bear) depend. As with other species, protection should be given to important habitats or ecological relationship where these become known.

Marine Species

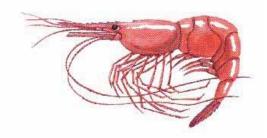
Arctic Cod (Boreogadus saida)
Blue Herring (Clupea pallasi) / Qaluhaq
Capelin (Mallotus villosus)
Fourhorn Sculpin (Myoxocephalus quadricornis) / Kanayuq
Greenland Cod (Gadus ogac)
Saffron Cod (Elegiums navaga)
Starry Flounder (Platichthys stellatus)

Freshwater

Arctic Charr (Salvelinus alpinus) / Qalukpik Broad Whitefish (Coregonus nasus) / Anaqklik Lake Trout (Salvelinus namaycush) / Iqaluakpak

CRABS, SHRIMP, CLAMS AND SCALLOPS

The Community of Sachs Harbour is aware that the coastal waters support populations of crabs, shrimp, clams and scallops. A preliminary study of a fishery for these species was conducted by the FJMC in 1988. The study identified six species of shell-fish and shrimp which may occur in the area and have commercial importance:



Clinorcardium ciliatum (cockle shell)
Serripes groenlandicus (clam)
Mytilus edulis (Bay mussel)
Delectopecten greenlandicus (Greenland scallops)
Pandalus montagui tridens (Striped shrimp)
Pandalus borealis (Pink shrimp)

It is recognized that these species may be important components of the food chain on which other animals depend, as well as potential food sources for subsistence and commercial use. As with other species, protection should be given to important habitats or ecological relationships where these become known.

The Community places a high priority in obtaining more information on these species. In 1999 and 2000, the Department of Fisheries and Oceans is conducting an FJMC sponsored small scale exploratory fishery for shrimp and scallops. This study will be used to determine the feasibility of commercial fishing and help assess the ecological impacts of commercial fishing.

INSECTS

A great number of terrestrial and aquatic insects occur on Banksland. It is recognized that these species may form an important part of the food chain on which other animals (e.g. waterfowl) or plants depend. Some species such as mosquitoes also have a significant effect on the behaviour and habitat use patterns exhibited by other animals (e.g. caribou) while others, such as butterflies, may be a potential tourist attraction.

As with other species, protection should be given to important habitats and ecological relationships (as appropriate) where these become known.



W. Lynch / Parks Canada

PLANTS OF BANKSLAND ARRANGED BY FAMILIES

A large number of plant species occur on Banksland. They provide an essential component of the ecosystem on which all other living animals on the island depend. They provide food and shelter for wildlife, influence water quality, provide food for humans and make a valued contribution to the overall appearance of the land. As with other species, protection should be given to important habitats and ecological relationships when these become known.

Recent Research

Aiken, S. 2000. Flora of the Canadian Archipelago. Canadian Museum of Nature.

O'Brien, D. 2000. Measuring Tundra Productivity and Vegetation Structuring Using Satellite Imagery. University of Manitoba.

Research Priority

Community would like to know more about dietary value and medical composition of locally harvested plants. Community also interested in edibility of local mushrooms.

Conservation Measures

- Protect important habitats and ecological relationships when these become known.
- Commercial harvesting of plants would only be acceptable when the ecological importance of the plant was known and the HTC and WMAC had provided approval.

List compiled by Dr. S. Aiken, Canadian Museum of Nature.

Plant Species List

Asteraceae, daisy family

Antenaria compacta (syn. = Antennaria friesiana subsp. compacta Antennaria friesiana (syn. = Antennaria friesiana subsp. friesiana Arnica angustifolia (syn. = Arnica alpina subsp. angustifolia) Artemesia richardsoniana Artemesia tilesii (syn. = Artemesia tilesii tilesii) Aster yukonensis (rare) Aster pygmaeus Leucantheum integrifolium (syn. = Chrysantheumum integrifolium) Crepis nana (syn. = Crepis nana var. nana) Erigeron compositus Erigeron eriocephalus Erigeron grandiflorus

Erigeron humilis (syn. = Erigeron unalaschkensis cespitose

Matricaria ambigua (Recorded by Porsild (1957))

Marticaria maritmina subsp. phaeocephala (syn. = Tripleurospermum phaeocephalum).

Petasites frgidus locally used as a food plant.

Senico atropurpureus subsp. frigidus

Senico congestus

Senecio hyperborealis

Taraxacum alaskanum (syn.=Taraxacum pumilum recorded Porsild (1957))

Taraxacum officinale subsp ceratophorum (syn.=Taraxacum ceratophorum and Taraxacum lacerum)

Taraxacum phymatocarpum (syn. = Taraxacum hyperarcticum).

Betulaceae, birch family

Betula glandulosa (Recorded on original Conservation Plan list. Not recorded in Porsild (1957). Recorded from Melville Island)

Boraginaceae, lungwort family

Mertensia maritima (syn.= Mertensia maritima subsp. maritima)

Brassicaceae (Cruciferae), Draba family

[Braya humilis (Braya humilis purpurascens is a mixed name).]

Braya humilis (syn. = Braya humilis subsp .arctica).

Braya thorild-wulffii (syn.= Braya purpurascens)

Cardamine digitata (syn.=Cardamine hyperborea)

Cardamine pratensis var. angustifolia (syn. = Cardamine pratensis subsp. angustifolia)

Cochelaria officinalis subsp. arctica (syn.=Cochelaria officinalis subsp. arctica)

Descurainia sophioides

Draba alpina (syn. = Draba micropetala)

Draba cinerea

Draba glabella (Recorded Porsild (1957)).

Draba norvegica (syn.=Draba hirta)

Draba lactea

Draba corymbosa (syn.= Draba bellii and Draba macrocarpa)

Draba nivialis

Draba oblongata (syn. = Draba groenlandica)

Draba subcapitata

Erysimum pallasii (wallflower)

Eutrema edwardsii

Lesquerella arctica

Parrya arctica (Recorded Porsild (1957))

Campanulaceae, bluebell family

Campanula uniflora

Caryophyllaceae, pink family

Arenaria rossii (syn.=Minuartia rossii)

Arenaria rubella (syn.= Minuartia rubella)

Arenaria sajanensi (syn. =Minuartia biflora)

Arenaria peploides var. diffusa (syn.= Honckenya peploides)

Ceratium arcticum (Recorded Porsild (1957))

Cerastium beeringianum

Cerastium regelii

Silene involucrata subsp.involucrata (syn.=Melandrium affine)

Silene uralensis subsp. uralensis (syn.=Melandrium apetalum)

Silene sorensenis (syn. =Melandrium trifolium

Sagina intermedia

Silene acaulis var.exscapa (syn.= Silene acaulis)

Stellaria crassipes (syn.= Stellaria edwardsii)

Stellaria humifusa

Stellaria longipes (syn. = Stellaria laeta)

Cyperaceae, sedge family

Carex aquatilis var. stans (syn. = Carex aquatilis)

Carex atrofusca Carex bicolor

Carex bigelowii subsp. lugens (Not in Conservation Plan list)

Carex capillaris (Not in Porsild (1957), but nearby on Victoria)

Carex glacilis (Not in Porsild (1957), but nearby on Victoria Island)

Carex glareosa (syn. = Carex glareosa subsp. glareosa) (Not in Porsild (1957), but nearby on Victoria Island)

Carex marina subsp. marina (syn. = Carex amblyorhncha) Not in Porsild (1957). Nearby on Victoria Island.

Carex marintima

Carece membranacea

Carex fuliginosa (syn. = Carex miscandra)

Carex rupestris

Carex saxatilis

Carex scirpoidea

Carex subspathacea

Carex ursina

Carex vaginata

Eriophorum angustifolia subsp. angustifolia (Recorded from Cape Kellett, Southern Banks, Porsild (1957).

Eriophorum angustifolia subsp. triste (syn. = Eriophorum triste)

Eriophorum callitrix

Eriophorum scheuchzeri (syn.= Eriophorum scheuchzeri var. scheuchzeri)

Eriophorum vaginatum (syn. =Eriophorum vaginatum subsp. spissum)

Kobresia myosuroides

Kobresia sibirica (Coast next to Victoria Island)

Kobresia simpliciuscula (Coast next to Victoria Island)

Empetraceae, crowberry family

Empetrum nigrum subsp. hermaphroditum (Not recorded for Banks Island in Porsild (1957). One location on Victoria Island.)

Ericaceae, bilberry family

Arctostaphylos alpina

Arctostaphylos rubra Apparently occurs in Sachs Harbour.

Cassiope tetragona (syn.=Cassiope tetragona subsp. tetragona)

Ledum palustre subsp. decumbens (Not recorded for Banks Island in Porsild (1957))

Rhododendron lapponicum

Vaccinium uligonosum (syn. = Vaccinium uligonosum subsp. microphyllum)

Vaccinium vitis-idaea subsp. minus (Not recorded for Banks Island Porsild (1957))

Equisetaceae, horsetail family

Equestum arvense

Equisetum scirpoides

Equisetum variegatum

Fabaceae (Leguminosae), pea family

Astragalus australis (syn. = Astragulus aboriginum)

Astragalus alpinus (syn. = Astragalus alpinus subsp. alpinus and Astraglus alpinus subsp. arcticus)

Astragalus eucosmus (Not recorded for Banks Island, Porsild (1957))

Hedysarum alpinum var. alpinum (syn.= Hedysarum alpinum subsp. americanum)

Hedysarum boreale subsp. mackenziei

Lupinus arcticus

Oxytropis arctica

Oxytropis borealis var. hudsonica. Recorded from Banks Island as Oxytropis glutinosa (Porsild 1957).

Oxytropis campestris subsp. gracilis (syn. = Oxytropis monicola)

Oxytropis maydelliana

Oyxtropis nigrescens var.uniflora (syn.= Oyxtropis nigrescens subsp. arctobia or Oxytropis arctobia)

Gentianaceae

Gentiana propinqu subsp. propinqua (syn.= Gentiana propinqu subsp. arctophila)

Hippuridaceae, mare's tail family

Hippuris vulgaris

Juncaeae, rush family

Juncus biglumis

Juncus castaneus (syn.=Juncus castaneus subsp. castaneus) (Not recorded in Porsild (1957), but nearby on Victoria) Juncus albescens (syn.=Juncus triglumis subsp. triglumis)

Luzula arctica Luzula confusa

Liliaceae, lily family

Tofeildia coccinea (Recorded Porsild (1957))

Tofieldia pusilla (Not recorded in Porsild (1957), but nearby on Victoria)

Linaceae, flax family

Linum lewisii (syn. =Linum perenne subsp. lewisii). (Not recorded for Banks Island in Porsild (1957). Recorded in original Conservation List)

Onagraceae, fireweed family

Epilobium arcticum (syn.=Epilobium davuricum)

Epilobium latifolium

Papaveraceaae, poppy family

Papaver radicatum subsp. radicatum (syn.= Papaver lapponicum subsp. occidentale)

Papaver kanei subsp. kanei

Papaver keelei (Recorded in Porsild (1957))

Plantaginaceae, plantain family

Plantago septata (Recorded from Banks Island but not on existing list)

Plumbaginaceae, leadwort family

Armeria maritima (syn. = Armeria maritima subsp. arctica)

Poaceae, grass family

Elymus alaskansus (including Agropyron boreale subsp. boreale and A. boreale subsp. hyperarcticum syn. =Agropyron violaceum var. hyperarcticum)

Alopecurus borealis (syn. =Alopecurus alpinus)

Arctagrostis latifolia subsp. latifolia (syn. = Arctagrostis latifolia var. latifolia)

Arctophila fulva

Calamagrostis stricta subsp. stricta (syn. = Calamagrostis neglecta)

Calamagrostis purpurascens (Recorded from southern Banks Island in Porsild 1957)

Deschampsia cespitosa subsp. brevifolia

Deschampsia paramushirensis (syn.=Deschampsia pumila) (Not recorded Porsild(1957), but shown on Prince Patrick Island)

Dupontia fisheri subsp. fisheri

Festuca baffinensis

Festuca brachyphylla

Festuca rubra subsp. richardsonii (syn. = Festuca rubra)

Leymus mollis (syn.=Elymus arenarius subsp. mollis var. villosissimus and Elymus arenarius subsp. mollis var. mollis)

Heirochloe alpina

Heirochloe pauciflora

Phippsia algida

Pleuropogon sabinei

Poa abbreviata

Poa alpigena (rare)

Poa alpigena var. colpodea (Recorded in Porsild (1957))

Poa arctica

Poa glauca

Puccinellia agrostidea (Recorded in Porsild (1957))

Puccinellia andersonii (rare)

Puccinellia angustata

Puccinellia phryganodes

Puccinellia vahliana (syn.= Colpodium vahlianum).

Trisetum spicaturm (Recorded in Porsild (1957))

Trisetum sibiricum

Polemoniaceae

Phlox sibirica subsp. richardsonii

Polemonium boreale

Polygonaceae, buckwheat family

Oxyria digyna

Rumex arcticus

Polygonum viviparum

Polypodiaceae, fern family

Cystopteris fragilis (syn. = Cystopteris fragilis subsp. fragilis)

Dryopteris fragrans

Woodsia glabella

Primulaceae

Androsace chamaejasmel var. arctica (Recorded in Porsild (1957))

Androsace septertrionalis

Primula stricta

Pyrolaceae

Pyrola grandiflora

Pyrola secunda (Not recorded in Porsild (1957))

Ranunculaceae, buttercup family

Anemone parviflora

Anemone patens (syn.=Pulsatilla patens)

Caltha palustris (syn. = Caltha palustris subsp. arctica)

Ranunculus gmelini (syn. =Ranunculus gmelini subsp. gmelini)

Ranunculus hyperboreus

Ranunculus nivalis

Ranunculus pedatifidus var. affinis (syn.= Ranunculus pedatifidus var. affinis)

Ranunculus pygmaeus (syn.= subsp. pygmaeus)

Ranunculus sabinei (syn. = Ranunculus pygmaeus subsp.sabinei

Ranunculus sulphurus (syn.= Ranunculus sulphurus var. sulphurus)

Rosaceae, rose family

Dryas intergrifolia (syn. =Dryas intergrifolia subsp. interifolia)

Dryas punctata (Recorded Porsild (1957)).

Geum rosii (Not recorded for Banks Island by Porsild (1957) but found on Melville)

Potentialla chamissonis

Potentilla hookeriana subsp hookeriana (syn. = Potentilla hookeriana subsp hookeriana var. hookeriana)

Potentilla hyperarctica

Potentilla pulchella

Potentialla rubicaulis

Potentialla vahliana

Rubus chamaemorus (rare) (Not recorded in Porsild (1957))

Salicaceae, willow family

Salix alaxensis (syn. = Salix alaxensis subsp. alaxensis)

Salix arctica (syn. = Salix arctica subsp. arctica)

Salix calcicola var. calcicola (Recorded as Salix richardsonii by Porsild (1957))

Salix nipoclada

Salix polaris (syn.= Salix polaris subsp. pseudopolaris)

Salix reticulata

Saxifragaceae, saxifrage family

Chrysoplenium tetrandrum

Saxifraga aizoidea

Saxifraga caespitosa

Saxifraga cernua

Saxifraga flagellaris subsp. platysepala

Saxifraga foliosa

Saxifraga hieracifolia (Not recorded in Porsild (1957))

Saxifraga hirculus

Saxifraga nivalis

Saxifraga oppositifolia (syn. =Saxifraga oppositifolia subsp. oppositifolia and subsp. smalliana)

Saxifraga rivularis

Saxifraga tenuis (Recorded north east tip of Banks Island by Porsild (1957))

Saxifraga tricuspidata

Scrophulariaceae, fernweed family

Castilleja pallida subsp.elegans (syn.= Castilleja elegans)

Pedicularis arcticus (syn.= Pedicularis langsdorffii subsp. arctica

Pedicularis lanata (syn. =Pedicularis kanei subsp. kanei)

Pedicularis capitatà

Pedicularis sudetica subsp. albolabiata Hultén (subspecies not recognized by Porsild 1957)

Pedicularis lanata (Recorded in Porsild (1957).

In Arctic Islands but not yet recorded from Banks Island

Crassulaceae, stonecrop family/

Diapensiaceae

Haloragaceae, watermilfoil family/

Lentibulariaceae, bladderwort family/

Lycopodiaceae, club-moss family. (Recorded from Melville Island)

Orchidaceae, orchid family/

Portulaceae. Montia lamprosperna has been recorded from Western Melville Island.

Potamogetonaceae, pondweed family/

HARVEST SEASONS IN THE SACHS HARBOUR PLANNING AREA

Jan 1-15	Jan 15-31	Feb 1-15	Feb 15-28	Mar 1-15	Mar 15-31	Apr 1-15	Apr 15-30	May 1-15	May 15-31	Jun 1-15	Jun 15-30
ers	furbearers furbearers	furbearers	furbearers	furbearers	furbearers	furbearers		birds	birds	birds	
ear	polar bear polar bear	polar bear	polar bear	polar bear	polar bear	polar bear	polar bear	polar bear	polar bear		
muskox	muskox	muskox	muskox	muskox	muskox	muskox	muskox	muskox			
caribou	caribou	caribou	caribou	caribou	caribou	caribou	caribou	caribou	caribou	caribou	caribou
									seal	seal	seal
						fish	fish	fish	fish	fish	fish

Dec 15-31		polar bear	muskox	caribou		
Dec 1-15	furbearers	polar bear	muskox	caribou		
Nov 15-30	furbearers		muskox	caribou		
Nov 1-15	furbearers		muskox	caribou		
Oct 15-31			muskox	caribou		
Oct 1-15			muskox	caribou		
Sep 15-30			muskox	caribou	seal	fish
Sep 1-15			muskox	caribou	seal	fish
Aug 15-31			muskox	caribou	seal	fish
Aug 1-15			muskox	caribou	seal	fish
Jul 15-31			muskox	caribou	seal	fish
Jul 1-15			muskox	caribou	seal	fish

APPENDIX A

PRINCIPLES OF WILDLIFE HARVESTING AND MANAGEMENT FROM THE INUVIALUIT FINAL AGREEMENT

- A basic goal of the Inuvialuit Land Rights Settlement is to protect and preserve the Arctic wildlife, environment and biological productivity through the application of conservation principles and practices.
- 2. In order to achieve effective protection of the ecosystems in the Inuvialuit Settlement Region, there should be an integrated wildlife and land management regime, to be attained through various means, including the coordination of legislative authorities.
- 3. It is recognized that in the future it may be desirable to apply special protective measures under laws, from time to time in force, to lands determined to be important from the standpoint of wildlife, research or harvesting. The appropriate ministers shall consult with the Inuvialuit Game Council from time to time on the application of such legislation.
- 4. It is recognized that one of the means of protecting and preserving the Arctic wildlife, environment and biological productivity is to ensure the effective integration of the Inuvialuit into all bodies, functions and decisions pertaining to wildlife management and land management in the Inuvialuit Settlement Region.
- 5. The relevant knowledge and experience of both the Inuvialuit and the scientific communities should be employed in order to achieve conservation.

APPENDIX B

GOALS AND PRINCIPLES OF THE INUVIALUIT RENEWABLE RESOURCE CONSERVATION AND MANAGEMENT PLAN

GOALS

- 1. **Conserve Resource Base**. To conserve arctic animals and plants and their associated ecosystems within the Inuvialuit Settlement Region.
- 2. **Integrated Management**. To provide for integrated renewable resource and land management.
- 3. **Co-operation**. To co-operatively manage shared resources.
- 4. **Enhance Understanding**. To enhance understanding and appreciation of arctic ecosystems.

PRINCIPLES

- 1. **Diversity**. Maintaining the great variety of animals and plants will help ensure the stability and productivity of the arctic ecosystem.
- 2. **Productivity & Culture**. Maintenance of productive arctic ecosystems is essential for the survival of Inuvialuit cultural values, social systems, local economy and sense of well being.
- 3. **Communication and Co-operation**. Long term protection of ecosystems can best be achieved through active communication and co-operation of all parties concerned, including the combination of renewable resource and land management activities.
- 4. **Future Options**. Maintenance of the renewable resource base and its enhancement, where appropriate, will maximize Inuvialuit future options.
- 5. **Protection**. Special conservation measures, including new legislation, may be necessary from time to time, to protect the renewable resource base.
- 6. **Population Management**. Management of fish and wildlife resources as discrete populations, where these can be identified is essential to their conservation.
- 7. **Habitat**. Careful management of habitat is vital to the maintenance of abundant fish and wildlife populations.
- 8. **Resource Use**. Subsistence and recreational use of well managed renewable resources is desirable and consistent with their conservation.
- 9. **Participation**. Participation of the Inuvialuit in renewable resource and land management is essential for the conservation of Arctic plants and animals and the habitats on which they depend.
- 10. **Indigenous Knowledge**. Inuvialuit knowledge and experience are essential elements in the proper management of renewable resources in the Settlement Region.

APPENDIX C

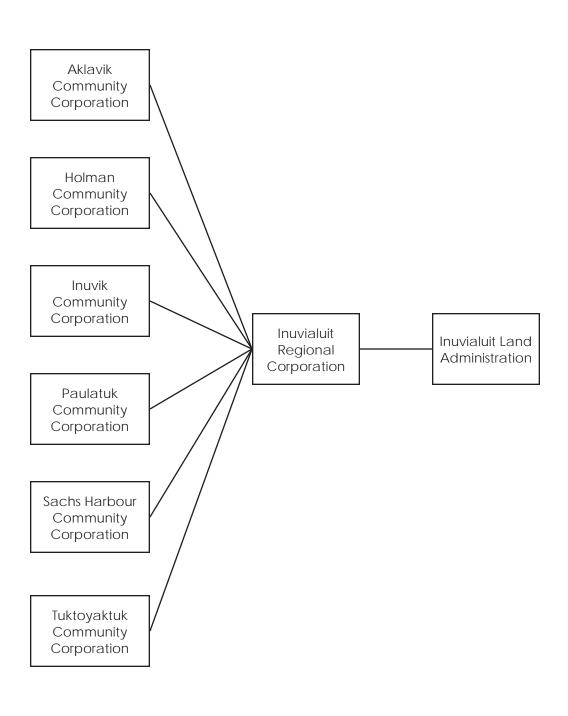
RESOURCE MANAGEMENT UNDER THE INUVIALUIT FINAL RENEWABLE ORGANIZATION CHART FOR AGREEMENT

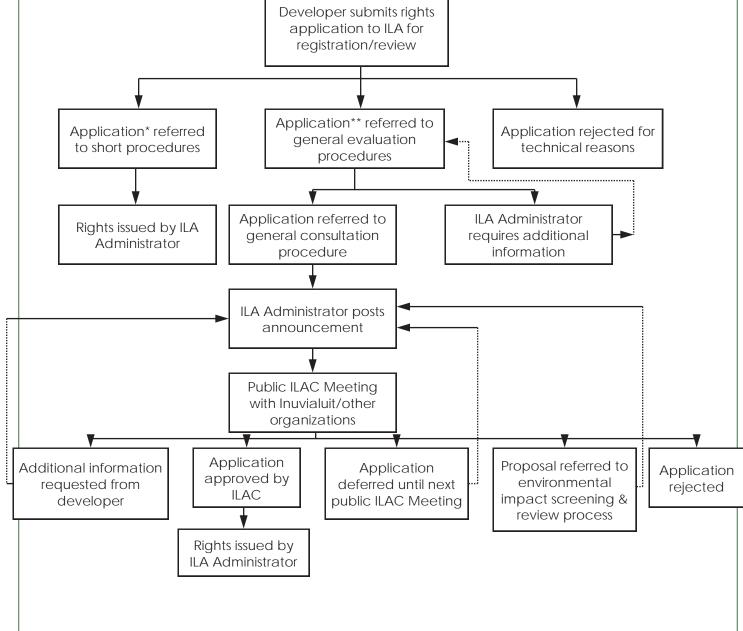
INUVIALUIT ORGANIZATIONS	NS CO-MANAGEMENT GROUPS	GOVERNMENT AGENCIES
Aklavik HTC	EISC	Canada Government of the NWT Yukon Territorial Government
Inuvik HTC	EIRB	Canada Government of the NWT Yukon Territorial Government
Olokhaktomiut HTC	FJMC	Canada (DFO)
Paulatuk HTC Sachs Harbour HTC	WMAC(NS)	Canada (DOE-CWS) Yukon Territorial Government
Tuktoyaktuk HTC	WMAC(NWT)	Canada (DOE-CWS) Government of the NWT
	Joint Secretariat Inuvialuit Harvest Study G.I.S.	

* Arrows represent the flow of information between organizations

APPENDIX D

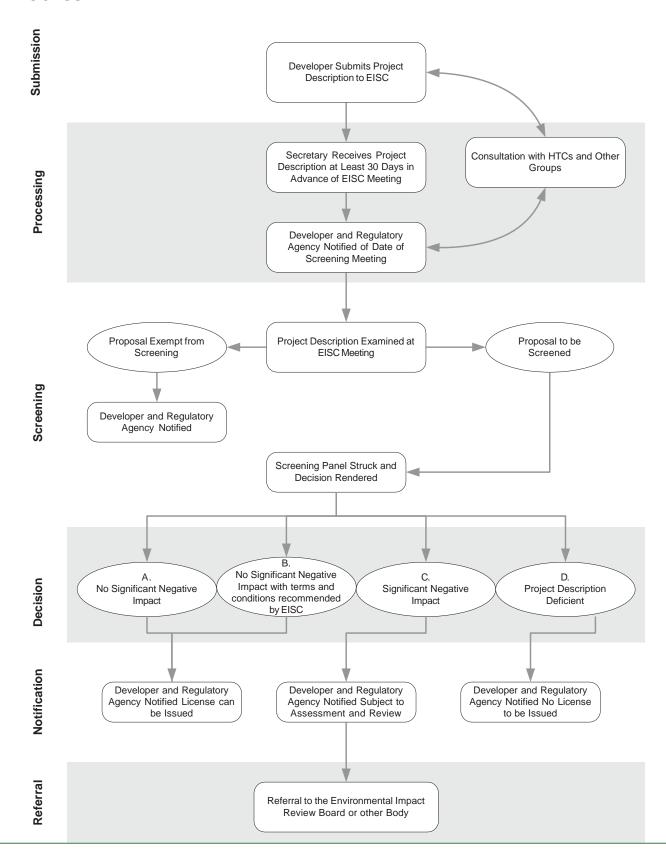
ORGANIZATION CHART FOR PRIVATE LAND MANAGEMENT UNDER THE INUVIALUIT FINAL AGREEMENT





APPENDIX F

INUVIALUIT SETTLEMENT REGION ENVIRONMENTAL IMPACT SCREENING AND REVIEW PROCESS

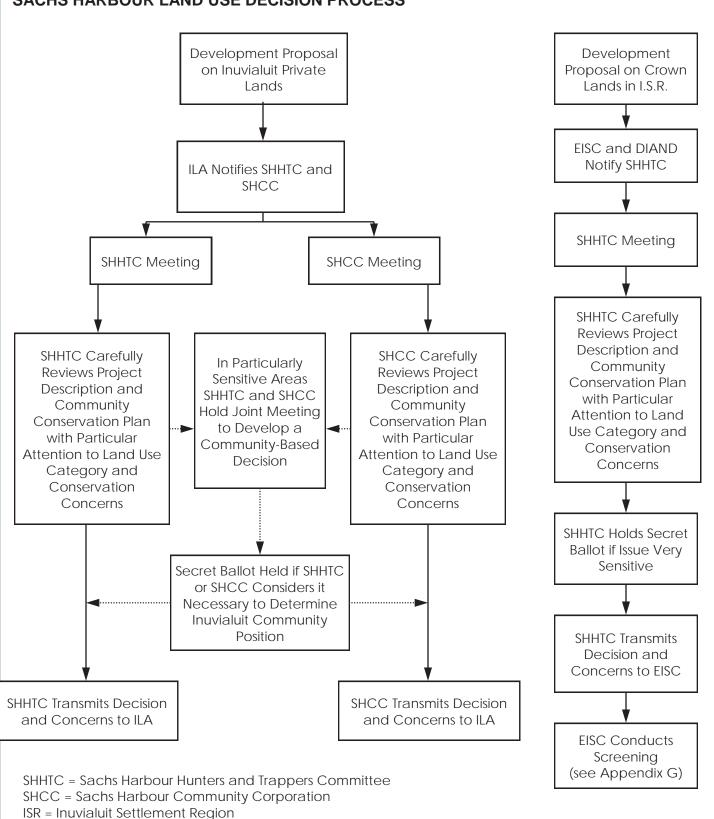


APPENDIX G

SACHS HARBOUR LAND USE DECISION PROCESS

EISC = Environmental Impact Screening Committee

DIAND = Department of Indian Affairs and Northern Development



APPENDIX H

CONDUCT OF OPERATIONS

Section 19. From Inuvialuit Land Administration Manual of Rules and Procedures

19(1) Activities	Prohibited	on Inuvialuit Land
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- 19(2) Excavation
- 19(3) Water Crossings
- 19(4) Clearing of Lines, Trails or Rights of Way
- 19(5) Survey Monuments
- 19(7) Contingency Plans
- 19(8) Pingos
- 19(9) Archaeological Sites
- 19(10) Campsites
- 19(11) Sewage
- 19(12) Restoration of an Area
- 19(13) Removal of Buildings and Equipment
- 19(16) Emergencies
- 19(17) Display of Rights
- 19(18) Staking
- 19(19) Cutting of Trees
- 19(20) Availability of Rules and Procedures

CONDUCT OF OPERATIONS

ACTIVITIES PROHIBITED ON INUVIALUIT LAND

- 19(1) No Holder shall, unless expressly authorized in his Right or in writing by the Administrator or Inspector:
 - (a) conduct an operation within 30 m (98 ft.) of a known monument or a known or suspected archaeological site or burial ground;
 - (b) when excavating Inuvialuit Land within 100 m (328 ft.) of any stream excavate at a point that is below the normal high water mark of that stream, except for buried pipelines;
 - (c) deposit on the bed or on the ice of any waterbody any excavated material; or
 - (d) when placing a fuel or supply cache within 100 m (328 ft.) or any stream or waterbody, place the fuel or supply cache below the normal high water mark of that stream or waterbody;

EXCAVATION

19(2) Subject to the terms and conditions of his Right or the express written authority of an Inspector, every Holder, other than the Holder of a Quarry Licence, Quarry Concession or Concession, shall replace all materials removed by him in the course of excavating, other than rock trenching, and shall level and compact the area of excavation, except for backfill over buried pipelines and sumps.

WATER CROSSINGS

- 19(3) Subject to the terms and conditions of his Right or the express written authority of an Inspector, every Holder shall:
 - (a) remove any material or debris deposited in any stream or waterbody in the course of an operation, whether for the purpose of constructing a crossing or otherwise, and

(b) restore the channel and bed of the stream or waterbody to their original alignment and crosssection, prior to the completion of the operations or prior to the commencement of spring break-up, whichever occurs first.

CLEARING OF LINES, TRAILS OR RIGHTS OF WAY

- 19(4) Unless expressly authorized in a Right, no Holder shall:
 - (a) clear a new line, trail or right-of-way where there is an existing line, trail or right-of-way that can be used:
 - (b) clear a line, trail, or right-of-way wider than 10 m (33 ft.); or,
 - (c) while clearing a line, trail or right-of-way, leave leaners or debris in standing timber.
- 19(5) Where, in the opinion of an Inspector, serious erosion may result from an operation, the Holder shall adopt such measures to control erosion as may be required by the Inspector.

SURVEY MONUMENTS

- 19(6) Where a boundary, geodetic or topographic monument is damaged, destroyed, moved or altered in the course of an operation, the Holder shall, in accordance with these Rules and laws generally applicable:
 - (a) report the fact immediately to the Administrator and respective authorities, and pay the costs of:
 - (i) investigating such damage, destruction, movement or alteration, and
 - (ii) restoring or re-establishing the monument to its original condition or its original place; or
 - (b) cause the monument to be restored or re-established at his own expense.

CONTINGENCY PLANS

19(7) Holders of a Land Use Permit Class A, Commercial Lease Class 1, Well-Site Lease, Public Lease, Quarry Concession, Concession, Reconnaissance Permit, or Right of Way shall submit to the Administrator and, from time to time, update comprehensive contingency plans to cope with possible major accidents, disasters or catastrophic events during the operations.

PINGOS

19(8) No vehicle shall have access to any Pingo, including a zone of 100 meters (328 ft.) surrounding such Pingo.

ARCHAEOLOGICAL SITES

- 19(9) Where in the course of an operation, a suspected archaeological site or burial ground is unearthed or otherwise discovered, the Holder shall immediately:
 - (a) suspend the operation on the site; and
 - (b) notify the Administrator or an Inspector of the location of the site and the nature of any unearthed materials, structures or artifacts.

CAMPSITES

19(10) Subject to the terms and conditions of the Right, every Holder shall dispose of all garbage, waste and debris from any campsite used in connection with an operation by removal, burning or burial or by such other method as may be directed by an Inspector.

SEWAGE

19(11) Sanitary sewage produced in connection with operations, shall be disposed of in accordance with the Public Health Ordinance of the Northwest Territories and any regulations made under the applicable Ordinance, or as stipulated by the Administrator.

RESTORATION OF AN AREA

19(12) Subject to the terms and conditions of the Right, every Holder shall, after completion of the operations, restore the area as nearly as possible to the same conditions as it was prior to the commencement of the operations.

REMOVAL OF BUILDINGS AND EQUIPMENT

- 19(13) Subject to subsections 19(14) and 19(15) hereof, every Holder shall, on completion of the operation, remove all buildings, machinery, equipment, materials and fuel drums or other storage containers used in connection with the operations.
- 19(14) A Holder may, with the prior written approval of the Administrator, leave on Inuvialuit Lands such buildings, equipment, machinery and materials as the permittee deems may be required for future operations or other operations in the area, but any equipment, machinery or materials so left shall be stored in a manner, at a location and for a duration approved by the Administrator, and apply for the reduction of the Land Occupancy Rent as provided for in subsection 17(14) hereof. Where applicable, the Holder may also make an Application for the reclassification of his Right.
- 19(15) Subject to any applicable mining legislation on 7(1)(b) Lands, a Holder may, without the prior approval of the Administrator, leave diamond drill cores at a drill site on Inuvialuit Lands.

EMERGENCIES

19(16) Any person may, in an emergency that threatens life, property or the natural environment, carry out such operations as he deems necessary to cope with the emergency, whether or not the operation is carried out in accordance with these Rules or any Right that he may have and such person shall immediately thereafter send a written report to the Administrator describing the duration, nature and extent of the emergency operation.

DISPLAY OF RIGHTS

- 19(17) Every Holder engaged in a work or undertaking authorized by a Right shall display:
 - (a) an exact copy of the Right, including the conditions thereof, in a prominent place of the operations; and
 - (b) the ILA number assigned to the Right on such articles and equipment, in such a manner and at such places as the Administrator may require.

STAKING

- 19(18) A person who desires to obtain a Quarry Concession, Coal Concession or Mineral Concession, shall stake such lands in the following manner:
 - (a) the area shall not exceed the maximum area permitted by these Rules and the length of any areas shall not exceed twice its width;
 - (b) the area shall be rectangular in form except where a boundary of a previously staked tract is adopted as common to both areas;
 - (c) the land shall be marked by the applicant with posts firmly fixed in the ground, one at each corner; alternatively, rock cairns may be used in lieu of posts;

- (d) each post shall be at least 25 sq. cm (4 sq. in.) and when firmly planted shall not be less than 1.25 m (4 ft.) above the ground;
- (e) each post shall bear markings showing the number of the post, the name of the applicant, the date of the staking and the kind of materials which it is desired to remove;
- (f) when rock cairns are used they shall be well constructed and shall not be less than two feet high and two feet in diameter at the base and a metal container shall be built into the cairn, and a notice bearing the number of the cairn, name of the applicant, the date of the staking and the kind of material which it is desired to remove shall be placed therein;
- (g) in a timbered area the lines between the posts shall be clearly marked; and in treeless areas mounds of earth or rock not less than 6 m (2 ft.) high and 6 m (2 ft.) in diameter at the base may be used to mark the lines between the cairns;
- (h) the applicant shall post a written or printed notice on a post or in a cairn setting out his intention to apply for a Quarry Concession within the time prescribed by these Rules; or
- (i) if two or more persons apply for the same area, the person who first staked the area in accordance with these Rules shall be entitled to priority in respect to the issuance of a Quarry Concession.

CUTTING OF TREES

19(19) Holders shall only cut trees where there is no reasonable alternative than cutting trees for the creation of seismic lines, Right-of-Ways, or areas necessary for work camps or buildings. Otherwise, Holders shall under no circumstances cut trees unless specifically authorized in writing by the Administrator.